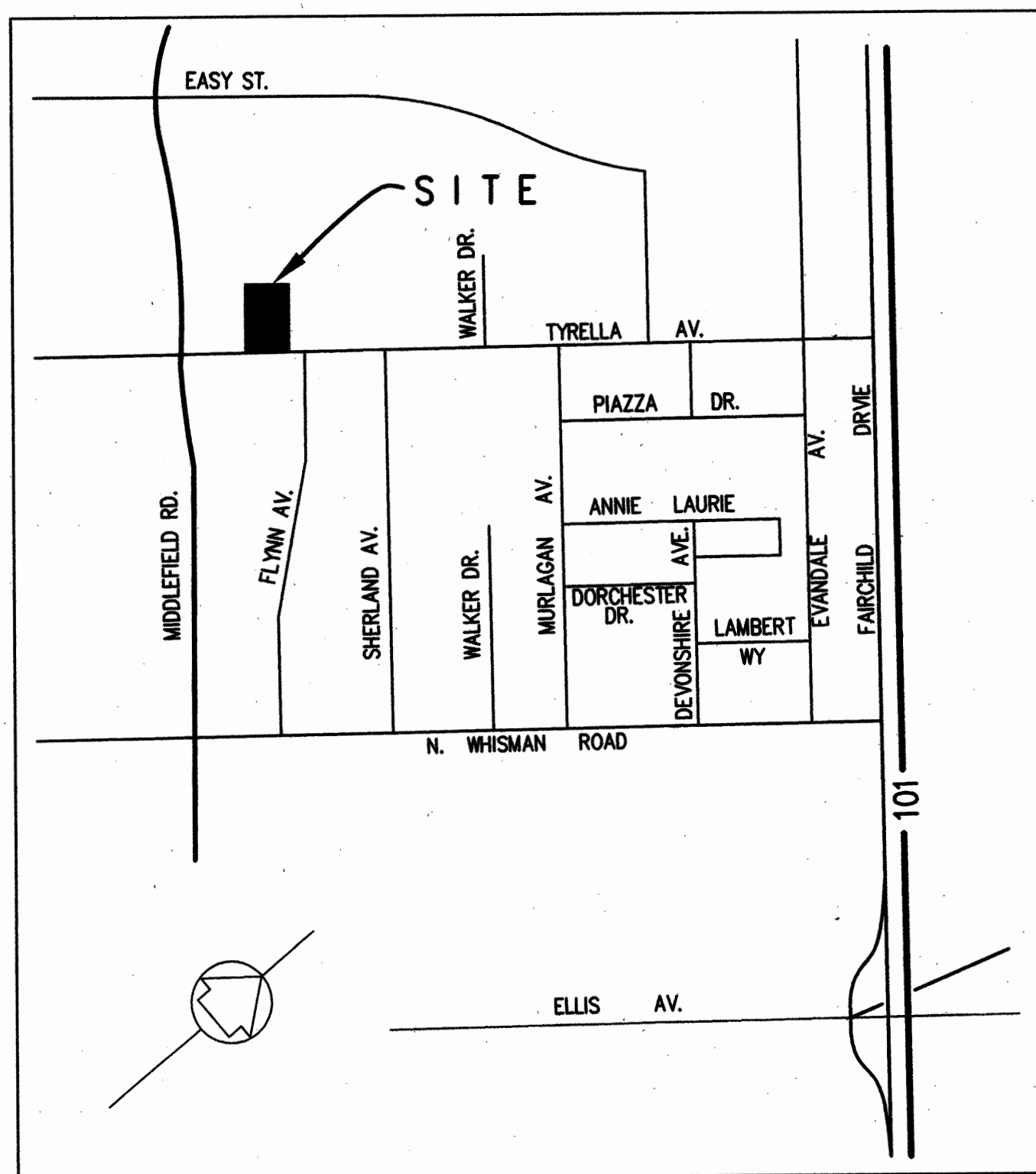


PLANS FOR THE IMPROVEMENT OF TRACT NO. 8987 310 TYRELLA AVENUE MOUNTAIN VIEW, CALIFORNIA



LOCATION MAP

NO SCALE

INDEX OF SHEETS:

- C-1 TITLE SHEET
- C-2 GENERAL NOTES
- C-3 "ON-SITE" GRADING PLAN
- C-4 "ON-SITE" UTILITIES PLAN
- C-5 "OFF-SITE" PLANS & PROFILES - TYRELLA AVENUE
- TRAFFIC CONTROL PLAN
- C-6 "ON-SITE" DETAILS, TYPICAL PRIVATE STREET CROSS SECTIONS AND PROFILE
- C-7 "ON-SITE" DETAILS, TRAFFIC CONTROL PLAN
- C-8 JOINT TRENCH PLAN BY GIACALONE DESIGN SERVICE, INC.
- C-9 JOINT TRENCH PLAN BY GIACALONE DESIGN SERVICE, INC.

BENCHMARK

BRONZE DISK SET IN TOP OF CURB, CENTER OF RETURN AT THE NORTHWEST CORNER OF FLYNN AVENUE AND TYRELLA AVENUE.

CITY OF MOUNTAIN VIEW 111-55 (1990)
ELEVATION = 58.13

NOTE:
SITE TOPOGRAPHIC SURVEY BY KEIR & WRIGHT, DATED AUGUST, 1996 WAS USED TO SHOW THE EXISTING SITE CONDITIONS.

SOILS REPORT

A SOIL AND GEOLOGICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY GLOBE SOILS ENGINEERS, DATED AUG. 30, 1996 (PROJECT NO. SR960701).

LEGEND:

LEGEND

PROJECT BOUNDARY	---	---
PROPERTY LINE	---	---
CURB, GUTTER AND SIDEWALK	---	---
CONCRETE VERTICAL CURB	---	---
CONCRETE VALLEY GUTTER	---	---
REDWOOD HEADER BOARD	---	---
CENTER LINE	---	---
SANITARY SEWER MAIN	SS	SS
SANITARY SEWER MANHOLE(SSMH)	○	●
SANITARY SEWER CLEANOUT	SSCO	SSCO
STORM DRAIN MAIN	SD	SD
STORM DRAIN MANHOLE(SDMH)	⊙	⊙
CURB INLET	□	■
AREA DRAIN	---	---
CATCH BASIN	---	---
WATER MAIN	W	W
WATER VALVE	WV	WV
FIRE HYDRANT	⊕	⊕
JOINT TRENCH (UNDERGROUND ELECT.)	JT	JT
PULL BOX	---	---
POWER POLE	---	---
STREET LIGHT CONDUIT	---	---
ELECTROLIER	---	---
TELEPHONE CONDUIT	---	---
GAS MAIN	G	G
GAS VALVE	GV	GV
CABLE TELEVISION LINE	CTV	CTV
STREET SIGN	---	---
MONUMENT (CITY STANDARD)	---	---
TREE & TREE TO BE REMOVED	⊙	⊙
CITY STANDARD TREE	⊙	⊙
SPOT ELEVATIONS	x 180	TC 180.0 OR x 180.0
GRADE TO DRAIN	---	---

EXISTING

PROPOSED

ABBREVIATIONS:

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
AB	AGGREGATE SUBBASE
BC	BEGINNING OF CURVE
BW	BACK OF WALK
CB	CATCH BASIN
CIP	CAST IRON PIPE
CL	CENTERLINE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION OR CONSTRUCT
CTV	CABLE TELEVISION
CI	CURB INLET
DIP	DUCTILE PIPE
DOM	DOMESTIC
DW	DRIVE WAY
EC	END OF CURVE
EP	EDGE OF PAVEMENT
ELEV	ELEVATION
EX-EXIST	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISH SURFACE
GB	GRADE BREAK
GV	GAS VALVE
HP	HIGH POINT
INV	INVERT ELEVATION
JP	JOINT POLE
JT	JOINT TRENCH
MH	MANHOLE
P	PAVEMENT
PP	POWER POLE
PL	PROPERTY LINE
PCC	PORTLAND CEMENT CONCRETE
PVC	POLYVINYL CHLORIDE PIPE
PB	PULLBOX
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
SW	SIDEWALK
SD	STORM DRAIN
SS	SANITARY SEWER
STD	STANDARD
TC	TOP OF CURB
TS	TOP OF SLAB
TW	TOP OF WALL
TY	TYPICAL
VCP	VITRIFIED CLAY PIPE
UE	UNDERGROUND ELECTRICAL
WM	WATER METER
WS	WATER SERVICE
WV	WATER VALVE

MAINTENANCE

THE HOMEOWNERS ASSOCIATION SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ON-SITE PRIVATE STREET IMPROVEMENTS, STREET LIGHTS, SANITARY SEWER, WATER AND STORM DRAIN FACILITIES IN THE COMMON AREAS, EXCEPT FOR THE DOMESTIC WATER METERS.

INSPECTION

THE CITY ENGINEERING INSPECTOR SHALL INSPECT DOMESTIC WATER LINES (INCLUDING SERVICES UP TO AND INCLUDING THE METER) AND SANITARY SEWER LINES (INCLUDING SERVICES UP TO THE BUILDING CLEANOUTS) AND SHALL INSPECT THE ON-SITE DRIVEWAY FOR CONFORMANCE WITH THE APPROVED PLANS.

GRADING CERTIFICATE

I HEREBY STATE TO THE DEPUTY PUBLIC WORKS DIRECTOR THAT BASED ON THE BEST OF BELIEF AND FIELD SURVEYS CONDUCTED ON THE SITE, THE SITE HAS BEEN GRADED SUBSTANTIALLY IN ACCORDANCE WITH THE ELEVATIONS SHOWN ON THE APPROVED FINAL GRADING PLANS, SHEET C-3, PREPARED BY SANDIS HUMBER JONES, AND DATED AND THE SITE WILL DRAIN AS DESIGNED IF NOT ADVERSELY MODIFIED BY OTHERS.

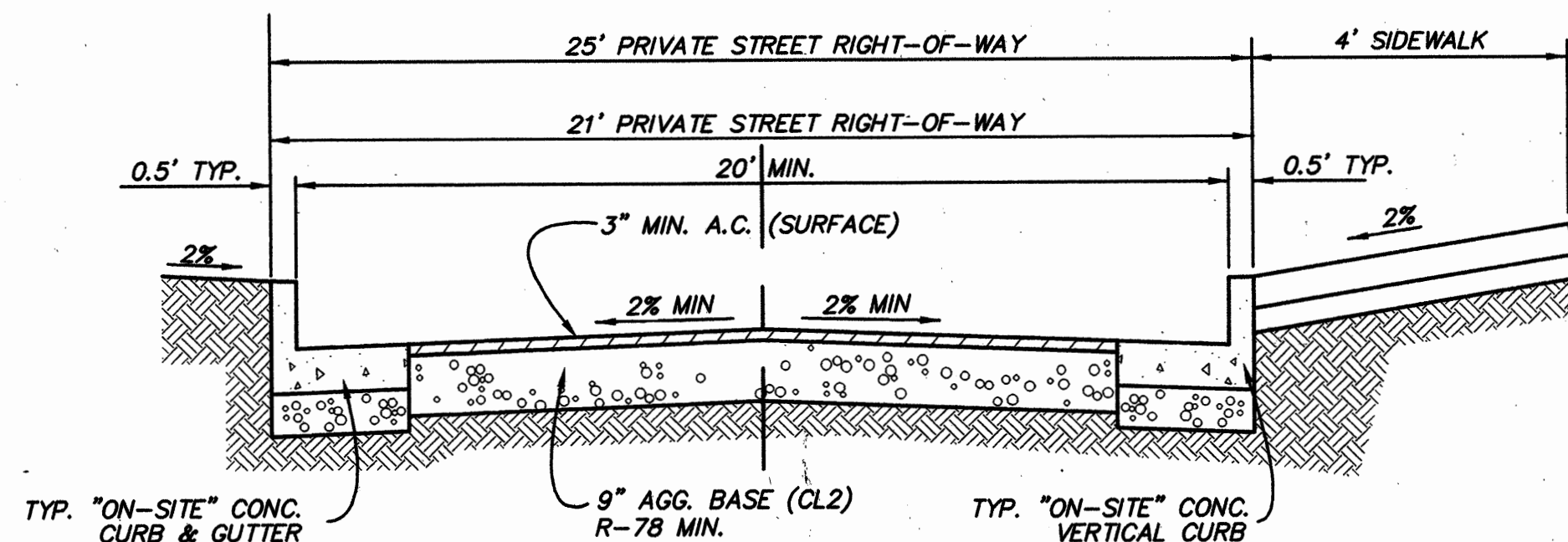
NAME: Timothy D. Sandis DATE: 10/20/98
RCE NUMBER: 15290 EXPIRES: 3/31/01

I HEREBY CERTIFY TO THE DEPUTY PUBLIC WORKS DIRECTOR THAT THE SITE HAS BEEN GRADED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE SOILS INVESTIGATION REPORT THAT WAS PREPARED FOR THIS SITE.



NAME: Zuhayr Nizam-Aldine DATE: 10/14/98
RCE/RGE NUMBER: GE 644 EXPIRES: 3/31/02

RECORD DRAWING, NOVEMBER 19, 1998



TYPICAL SECTION-PRIVATE STREET
NO SCALE

REVISIONS			
No.	DATE	BY	DESCRIPTION

DEPARTMENT OF PUBLIC WORKS CITY OF MOUNTAIN VIEW, CALIFORNIA			
REVIEWED BY: APPROVAL RECOMMENDED:		APPROVED BY:	
<u>Eugene N. Shiomoto</u>		<u>John C. Jullu</u> 11/18/97	
OPERATIONS ENGINEER R.C.E. 42954 REG. EXPIRES MARCH 31, 2000		DEPUTY PUBLIC WORKS DIR. R.C.E. 33017 REG. EXPIRES MARCH 6, 1998	
SHEET 1 OF 7 SHEETS		DRAWING NO. C-1	

605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel. (415) 969-6900
Fax. (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8/12/97
SCALE: AS SHOWN
DRAWN BY: ET
APPROVED BY: GBC
DRAWING NO.: 297136

DATE: 9/26/97
No. 15290
Exp. 3/31/01
CIVIL
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from sole negligence of design professional.

California Council
of Civil Engineers
& Land Surveyors

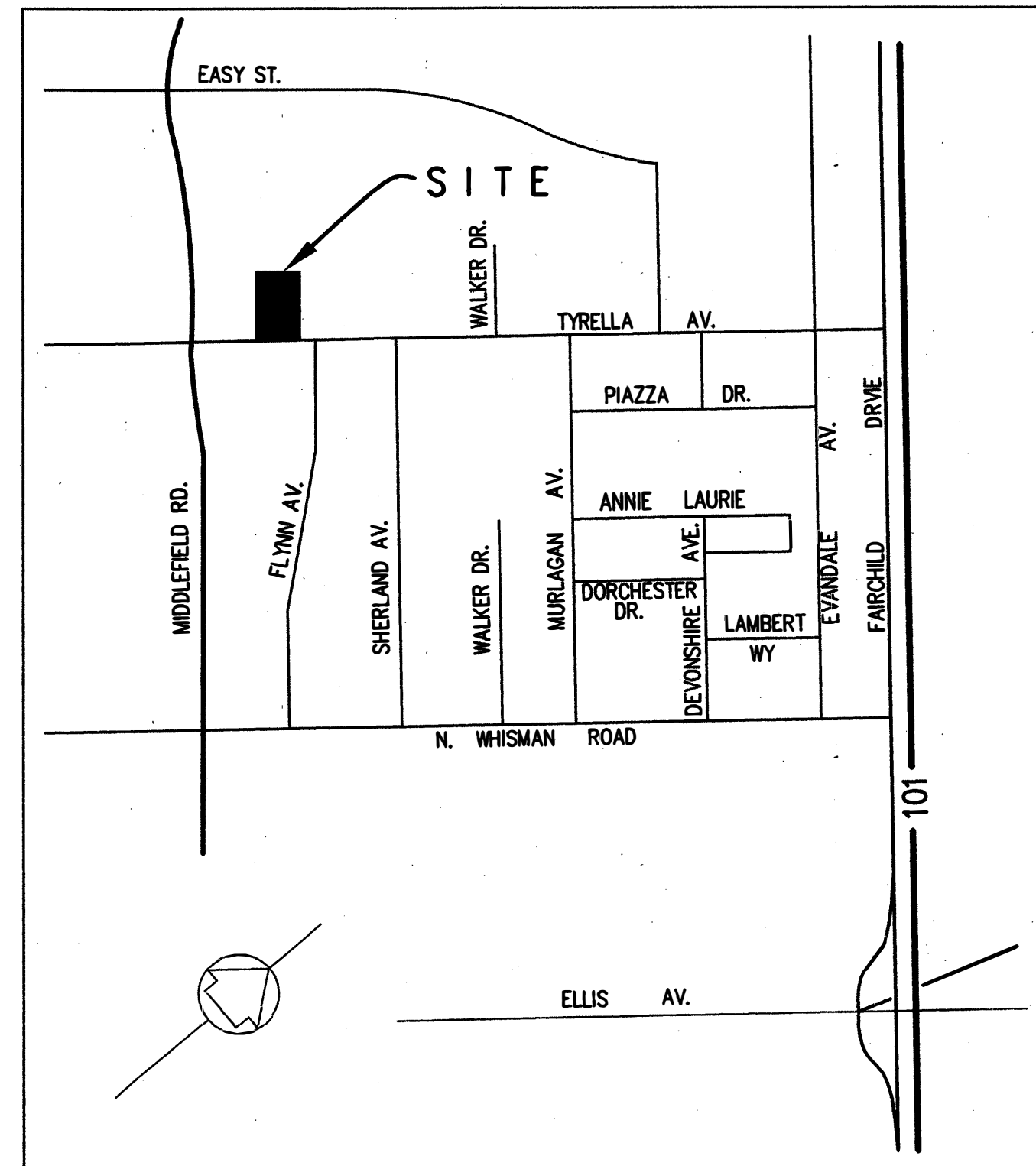
AS-BUILT

7213-01

297136

PLANS FOR THE IMPROVEMENT OF TRACT NO. 8987

310 TYRELLA AVENUE
MOUNTAIN VIEW, CALIFORNIA



LOCATION MAP
NO SCALE

INDEX OF SHEETS:

- C-1 TITLE SHEET
- C-2 GENERAL NOTES
- C-3 "ON-SITE" GRADING PLAN
- C-4 "ON-SITE" UTILITIES PLAN
- C-5 "OFF-SITE" PLANS & PROFILES - TYRELLA AVENUE
- TRAFFIC CONTROL PLAN
- C-6 "ON-SITE" DETAILS, TYPICAL PRIVATE STREET CROSS SECTIONS AND PROFILE
- C-7 "ON-SITE" DETAILS, TRAFFIC CONTROL PLAN
- C-8 JOINT TRENCH PLAN BY GIACALONE DESIGN SERVICE, INC.
- C-9 JOINT TRENCH PLAN BY GIACALONE DESIGN SERVICE, INC.

BENCHMARK

BRONZE DISK SET IN TOP OF CURB, CENTER OF RETURN AT THE NORTHWEST CORNER OF FLYNN AVENUE AND TYRELLA AVENUE.

CITY OF MOUNTAIN VIEW 111-55 (1990)
ELEVATION = 58.13

NOTE:
SITE TOPOGRAPHIC SURVEY BY KEIR & WRIGHT, DATED AUGUST, 1996 WAS USED TO SHOW THE EXISTING SITE CONDITIONS.

SOILS REPORT

A SOIL AND GEOLOGICAL REPORT FOR THIS PROJECT HAS BEEN PREPARED BY GLOBE SOILS ENGINEERS, DATED AUG. 30, 1996 (PROJECT NO. SR960701).

LEGEND:

LEGEND

PROJECT BOUNDARY	---
PROPERTY LINE	---
CURB, GUTTER AND SIDEWALK	---
CONCRETE VERTICAL CURB	---
CONCRETE VALLEY GUTTER	---
REDWOOD HEADER BOARD	---
CENTER LINE	---
SANITARY SEWER MAIN	SS
SANITARY SEWER MANHOLE(SSMH)	SSMH
SANITARY SEWER CLEANOUT	SSCO
STORM DRAIN MAIN	SD
STORM DRAIN MANHOLE(SDMH)	SDMH
CURB INLET	CI
AREA DRAIN	AD
CATCH BASIN	CB
WATER MAIN	W
WATER VALVE	WV
FIRE HYDRANT	FH
JOINT TRENCH (UNDERGROUND ELECT.)	JT
PULL BOX	PB
POWER POLE	PP
STREET LIGHT CONDUIT	SL
ELECTROLIER	EL
TELEPHONE CONDUIT	T
GAS MAIN	G
GAS VALVE	GV
CABLE TELEVISION LINE	CTV
STREET SIGN	---
MONUMENT (CITY STANDARD)	M
TREE & TREE TO BE REMOVED	T
CITY STANDARD TREE	---
SPOT ELEVATIONS	x 180
GRADE TO DRAIN	OR

EXISTING

PROPOSED

ABBREVIATIONS:

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
AB	AGGREGATE SUBBASE
BC	BEGINNING OF CURVE
BW	BACK OF WALK
CB	CATCH BASIN
CIP	CAST IRON PIPE
CL	CENTERLINE
CO	CLEANOUT
CONC	CONCRETE
CONST	CONSTRUCTION OR CONSTRUCT
CTV	CABLE TELEVISION
CI	CURB INLET
DIP	DUCTILE PIPE
DOM	DOMESTIC
DW	DRIVE WAY
EC	END OF CURVE
EP	EDGE OF PAVEMENT
ELEV	ELEVATION
EX-EXIST	EXISTING
FC	FACE OF CURB
FF	FINISHED FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISH SURFACE
GB	GRADE BREAK
GV	GAS VALVE
HP	HIGH POINT
INV	INVERT ELEVATION
JP	JOINT POLE
JT	JOINT TRENCH
MH	MANHOLE
P	PAVEMENT
PP	POWER POLE
PL	PROPERTY LINE
PCC	PORTLAND CEMENT CONCRETE
PVC	POLYVINYL CHLORIDE PIPE
PB	PULLBOX
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT OF WAY
SW	SIDEWALK
SD	STORM DRAIN
SS	SANITARY SEWER
STD	STANDARD
TC	TOP OF CURB
TS	TOP OF SLAB
TW	TOP OF WALL
TYP	TYPICAL
VCP	VITRIFIED CLAY PIPE
UE	UNDERGROUND ELECTRICAL
WM	WATER METER
WS	WATER SERVICE
WV	WATER VALVE

MAINTENANCE

THE HOMEOWNERS ASSOCIATION SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL ON-SITE PRIVATE STREET IMPROVEMENTS, STREET LIGHTS, SANITARY SEWER, WATER AND STORM DRAIN FACILITIES IN THE COMMON AREAS, EXCEPT FOR THE DOMESTIC WATER METERS.

INSPECTION

THE CITY ENGINEERING INSPECTOR SHALL INSPECT DOMESTIC WATER LINES (INCLUDING SERVICES UP TO AND INCLUDING THE METER) AND SANITARY SEWER LINES (INCLUDING SERVICES UP TO THE BUILDING CLEANOUTS) AND SHALL INSPECT THE ON-SITE DRIVEWAY FOR CONFORMANCE WITH THE APPROVED PLANS.

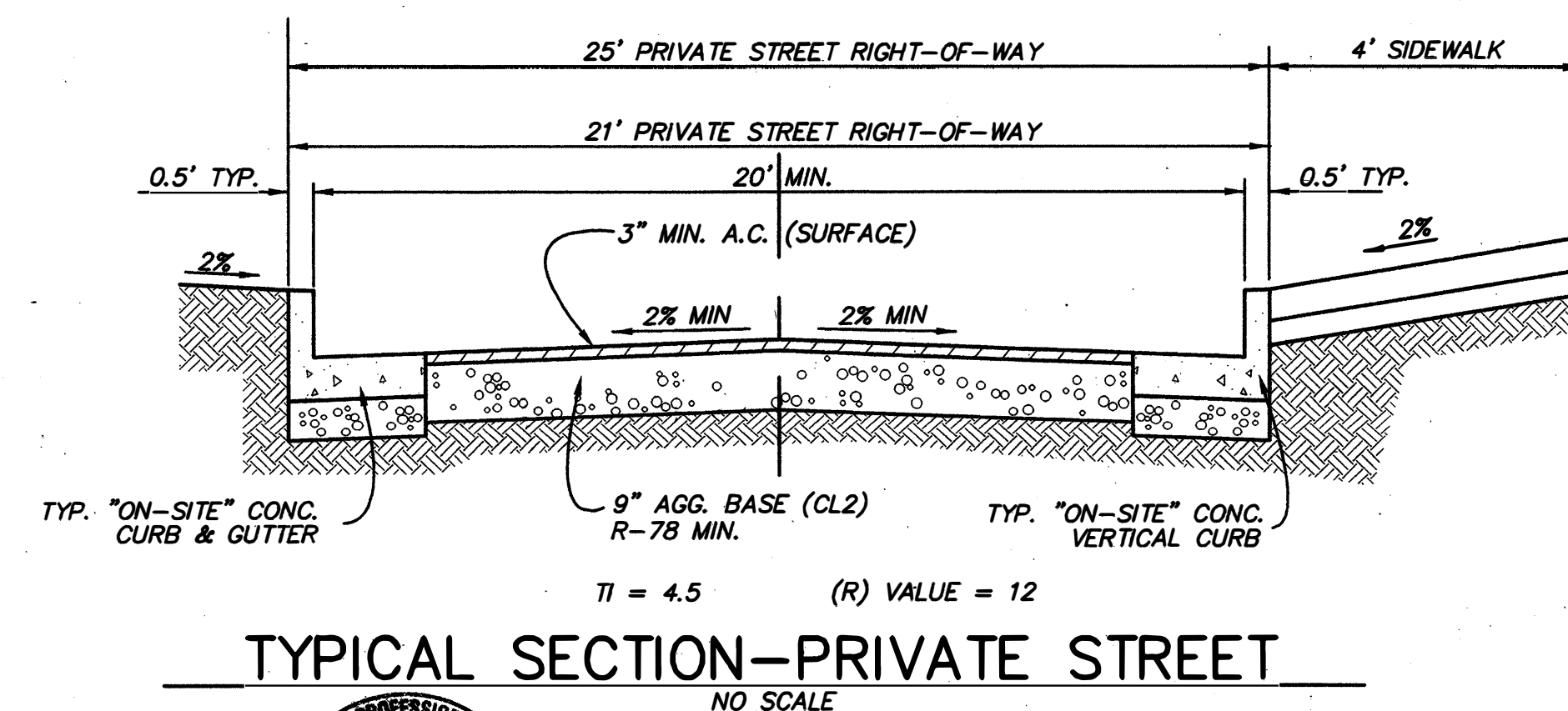
GRADING CERTIFICATE

I HEREBY STATE TO THE DEPUTY PUBLIC WORKS DIRECTOR THAT BASED ON THE BEST OF BELIEF AND FIELD SURVEYS CONDUCTED ON THE SITE, THE SITE HAS BEEN GRADED SUBSTANTIALLY IN ACCORDANCE WITH THE ELEVATIONS SHOWN ON THE APPROVED FINAL GRADING PLANS, SHEET C-3, PREPARED BY SANDIS HUMBER JONES, AND DATED AND THE THE SITE WILL DRAIN AS DESIGNED IF NOT ADVERSELY MODIFIED BY OTHERS.

NAME _____ DATE _____
RCE NUMBER: _____ EXPIRES: _____
DATE _____

I HEREBY CERTIFY TO THE DEPUTY PUBLIC WORKS DIRECTOR THAT THE SITE HAS BEEN GRADED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE SOILS INVESTIGATION REPORT THAT WAS PREPARED FOR THIS SITE.

SOILS ENGINEER/GEOTECHNICAL ENGINEER _____ DATE _____
RCE/RGE NUMBER: _____ EXPIRES: _____
DATE _____



TYPICAL SECTION-PRIVATE STREET
NO SCALE

REVISIONS			
No.	DATE	BY	DESCRIPTION

DEPARTMENT OF PUBLIC WORKS CITY OF MOUNTAIN VIEW, CALIFORNIA	
REVIEWED BY: _____ APPROVAL RECOMMENDED:	APPROVED BY: _____
<i>Eugene N. Shiomoto</i> OPERATIONS ENGINEER R.C.E. 42954 REG. EXPIRES MARCH 31, 2000	<i>John C. Lulla</i> 11/14/97 DEPUTY PUBLIC WORKS DIR. R.C.E. 33017 REG. EXPIRES MARCH 6, 1998
SHEET 1 OF 7 SHEETS	DRAWING NO. C-1

605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel (415) 969-6900
Fax (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8/12/97
SCALE: AS SHOWN
DRAWN BY: ET
APPROVED BY: GBC
DRAWING NO.: 297136

DATE: 9/26/97
No. 15290
Exp. 3/31/01
TYPICAL PROFESSIONAL ENGINEER
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01

+ Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from sole negligence of design professional.

California Council
of Civil Engineers
& Land Surveyors

7213-01

297136

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOCOPY, RECORDING OR ANY INFORMATION RETRIEVAL AND STORAGE SYSTEM, WITHOUT PERMISSION IN WRITING FROM SANDIS HUMBER JONES.

Construction Notes

General

1. All work to be in accordance with the Standard Provisions of the City of Mountain View, adapted January 1988 and amended March 1990, and the latest edition of the State of California Standard Specifications (July 1992).
2. Normal working hours for City Public Works Construction Inspectors are 7:30 a.m. to 4:00 p.m., Monday through Friday. The cost of overtime for city inspection will be charged to the Contractor if the Contractor works before 7:30 a.m., after 4:00 p.m., or on Saturday, Sunday or holidays.
3. City Public Works Construction Section shall be provided with grading notes showing cuts and fills for all improvements to be inspected by the City.
4. A permit, an approved backflow prevention device and a city meter are required for temporary construction water from fire hydrants and/or existing water services during construction. Contact the meter shop at (415)903-6329 for further information.
5. A tree removal permit is required from the City Parks Division to remove any heritage tree or street tree either on private property or in the City right-of-way.

Notification

6. Contractor shall notify the Public Works Director at least two (2) working days prior to commencing work or if work has been suspended for a period of more than twenty-four (24) hours.
7. Contractor shall leave an emergency phone number with the emergency communications center at (415)903-6395 and keep the center informed daily regarding detours.
8. Contractor shall contact USA (Underground Service Alert) at (800)642-2444 forty-eight (48) hours prior to beginning work to verify existing underground utilities.
9. Contractor shall notify all public or private utility owners forty-eight (48) hours prior to commencement of work adjacent to the utility unless excavation permit specifies otherwise.
10. Contractor shall give forty-eight (48) hours notice to the City Public Works Construction Inspectors at (415)903-6211 before making connection to existing water facilities. The inspectors will notify the City's Water Division foreman to schedule a City Water Division Crew. At all times, the manipulation of existing or new valves shall be done by Water Division personnel.
11. All project owners, contractors and/or developers are required to call for inspections a minimum of two (2) working days in advance of the required inspection time.

Utilities

12. Water meter registers shall be oriented such that readings can be made from a paved area.
13. All cuts into existing sewer mains shall be machine taps made by the Tap Title Co., (408)365-7557, or approved equal, unless shown otherwise.
14. Water meters and sanitary sewer cleanouts shall be located per the City Standard Provisions.
15. One-inch meter boxes shall be used for meters that are 1" or smaller.
16. City Standard Details D-1 and D-13 are hereby revised to replace the insulating meter coupling of flange with a 6" PVC section of pipe. For a 3/4" meter installation, a standard 5/8" x 3/4" x 3/4" Mueller H-10890 meter coupling shall be connected to a 3/4" Flap brass coupling connected to a 3/4" x 6" long schedule 80 PVC threaded Mip nipple. For a 1" meter installation, the tailpiece and brass coupling shall be 1" in diameter. For a 1-1/2" or 2" meter installation, the 6" long (same diameter as meter) PVC threaded Mip nipple shall be screwed directly into the threaded flange connection at the meter.
17. All D.I.P. water lines installed shall be wrapped in an 8-Mil Polyethylene sleeve.
18. All new water mains and fire services shall be (PVC) Class 200-ANSI/AWWA C-900 with epoxy coated valves and fittings that are wrapped in 8 mil. polyethylene.
19. All new water services smaller than 4" shall be type K copper.
20. No connection shall be allowed between the pipe and the anode prior to testing and approval by the Engineer.
21. The City will make final anode wiring connections provided that the wires are properly marked or a drawing is submitted to identify the wires.
22. All backflow devices shall be of a reduced-pressure principle type, as listed in the City Standard Provisions. No connection between the backflow preventer and water meter will be permitted, backflow preventers smaller than 2.5" shall be placed directly behind the water meter, unless there is a conflict with other utilities, driveways or sidewalks. Backflow preventers 2.5" or larger shall be placed as close to the meter as possible, unless an exemption is granted by the Public Services Department. If an exemption is granted, the trenches shall be left open so that the City can verify there are no connections between the backflow preventer and meter. The City reserves the right to test the system to ensure that these requirements are met.
23. The contractor shall pay all utility company connection charges for street light services. The contractor shall install a pullbox at the base of the riser pole or connect to the nearest underground electric secondary box for all new streetlight electric service points.

Street Improvements

24. All underground utilities shall be completed before placing of base rock unless otherwise noted.
25. Contractor shall reset manhole rims and valve boxes to grade immediately prior to placing the last lift of paving. Contractor shall, at all times, maintain the gate valve risers to grade and free of foreign material for gate valves needed for emergency operation as determined by the engineer.
26. The Contractor is to furnish and install the street name sign posts, sign brackets and street name faceplates.
27. Concrete contractor shall verify location of driveways, sewer laterals and water services before pouring curbs and shall mark face of curb with a letter "S" for sewer laterals and a letter "W" for water services.
28. All curb, gutter, sidewalk and driveways that are reconstructed shall be replaced within one week after its removal.
29. Street trees are to be irrigated by on-site systems and maintained by the property owner per the City Parks Division Standards and the City Standard Provisions.

Health and Safety

30. The Contractor shall conform to the rules and regulations of the State Construction Safety Orders pertaining to excavation and trenches. A copy of the Construction Safety Orders is available at the City.

General Notes:

1. The Contractor shall be responsible for verifying the elevations of the existing storm drains, sewers and water to be extended or connected to prior to commencing the work. Notify Engineer if actual is different from plans.
2. Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged, in connection with the performance of work on the project, excepting liability arising from the sole negligence of design professional.
3. Topography shown on the plans represents approximate conditions as of August, 1996.
4. Contractor shall replace or repair, at Contractor's own expense, all damaged, removed, or otherwise disturbed walls, fences, services, utilities, improvements or features of whatever nature to their original condition whether shown on the plans or not; provided such repair or replacement is caused by contract work operators.
5. All work shall be in conformance with the Geotechnical Report prepared by Globe Soils Engineers. All grading work geotechnical considerations shall be performed in accordance with the Geotechnical Report and to the satisfaction of the Soils Engineer.
6. Inspection and testing by Owner's Soils Engineer is required. The Soil Engineer's area of responsibility shall include professional inspection and certification concerning the preparation of ground to receive fills, and testing for required compaction. During grading, all necessary reports, compaction data and soil engineering recommendations shall be submitted to the Owner and the building official by the Soils Engineer.
7. Unauthorized changes & uses: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.
8. Locations of existing underground facilities and utilities shown are approximate and are based on field survey and/or available utility company information. It is the contractor's responsibility to verify the actual location of utilities prior to the commencement of work. As required, physical verification of utility location shall be performed by potholing or hand digging and careful subsurface probing in conformance with Article 6 of the CAL/OSHA construction safety order. Any deviations from locations shown on the plans shall be brought to the Engineers attention before starting construction.
9. Street Monument Staking: Sandis Humber Jones will set straddlers for street monuments to be constructed by contractor. Straddlers to be saved until monuments are punched by Sandis Humber Jones.
10. Private street name signs shall have white reflective letters on a green reflective background. The phrase "PRIVATE STREET" in 3 inch letters shall be included on each sign. The sign, lettering and post shall conform to the City's standard detail A-13. All private street names must be approved by the city's traffic engineer.
11. City wheelchair ramp details A-16 and A-17 are hereby amended. The ramp shall be constructed with a 1/2" lip beveled at 45% per state standard detail A88. The herringbone groove pattern shall not be installed. The 12" wide groove border shall not be constructed on the slope of the ramp. The grooved border shall have the same slope as the adjacent sidewalk.
12. In event of a street closure and detour that is three or more consecutive days and is caused by the Contractors operation, the Contractor shall notify the U.S. Postal Services Customer Services Manager at (415) 967-5721 twenty-four (24) hours prior to the street closure.

Earthwork

General

1. The Owner is required to hire a testing laboratory to perform compaction tests. The test results shall be submitted to the City's Construction Engineer prior to any paving.

Clearing and Site Preparation

2. The site is to be cleared of all surface and subsurface deleterious materials including any existing structures and associated foundations, buried utility lines, unless otherwise advised by Owners Soils Engineer, pavements, concrete slabs, debris, designated trees and shrubs and associated roots. In addition, portions of the shopping center with below-grade or basement levels to be completely excavated unless otherwise advised by Owners Soils Engineer. Excavations extending below the planned finish site grades shall be cleared and backfilled with suitable material compacted to the recommendations given under the "Compaction" section. All backfilling to be carried out under the observation of the Owners Soil Engineer to assure that fill placement is performed in accordance with these recommendations.

Subgrade Preparation

3. After clearing, areas to be developed to be stripped to sufficient depth to remove all surface vegetation and organic laden topsoil. The actual stripping depth to be established in the field by the Soils Engineer at the time of construction. The stripped materials should be removed from the site or may be stockpiled for use in landscaped areas as directed by the Owner. After the site has been properly cleared and the necessary excavations made, the exposed surface soils in those areas to receive fill, slabs-on grade or pavements to be scarified to a depth of 6 inches, moisture conditioned to slightly above optimum moisture content, and compacted in accordance with the requirements for structural fill given below under the section entitled "Compaction".

Material for Fill

4. All on-site soils having an organic content of less than 3 percent by volume are suitable for use as fill at the site. Fill material not to contain rocks or lumps larger than 6 inches in greatest dimension, with no more than 15 percent larger than 2.5 inches. Imported fill material to be predominantly granular with a plasticity index of 15 or less.

Reuse of Onsite Recycled Materials

5. Asphaltic or Portland cement concrete may be used as engineered fill if ground up and thoroughly mixed with onsite or import clayey or sandy soil. In general, recycled asphalt or concrete to be ground down to less than 4 inches in greatest dimension, with no more than 25 percent larger than 2.5 inches. Ground recycled material to be mixed with a sufficient amount of fine-grained or sandy soil, such that there is no more than 30 percent by weight of recycled material in the final mix.

Fill containing recycled asphalt and concrete to be spread out evenly across the site, and placed near the bottom of any proposed fills. In addition, recycled fill not to be used within 2 feet of finished grade in building or roadway areas.

Compaction

6. All fill as well as scarified surface soils in those areas to receive fill of slabs-on-grade to be compacted by mechanical means to at least 90 percent relative compaction as determined by ASTM Test Designation D-1557, latest edition. Fill to be placed in lifts not exceeding 8 inches in uncompacted thickness. Fills greater than 5 feet in thickness to be compacted to at least 95 percent relative compaction for the portion of fill below the upper 5 feet. The upper 6 inches of subgrade in pavement areas as well as all aggregate base and subbase to be compacted to at least 95 percent relative compaction (ASTM D-1557, latest edition). The existing native soils to be compacted at a moisture content slightly above the laboratory optimum.

Trench Backfill

7. All utility trenches to be backfilled with compacted fill in accordance with City of Mountain View requirements, or the following, whichever is more stringent. Fill material to be placed in lifts not exceeding 8 inches in uncompacted thickness and to be compacted to at least 90 percent relative compaction (ASTM D-1557, latest edition) by mechanical means only. The upper 6 inches of backfill in all pavement and slab areas to be compacted to at least 95 percent relative compaction.

Temporary Slopes

8. The Contractor to be responsible for all temporary slopes excavated at the site and the design of any required temporary shoring. Shoring and bracing to be provided by the Contractor in accordance with the strictest governing safety standards.

All temporary slopes and trenches excavated in the natural clayey soils and less than 5 feet deep below the ground surface may be cut vertical. All other unshared slopes greater than 5 feet deep should be cut to inclinations of 1:1 (horizontal:vertical). Because of the variable nature of the existing soil, field modifications of temporary cut slopes may be required. Unstable materials encountered on the slopes during the excavation should be trimmed off even if this requires cutting the slope back at flatter inclinations.

Surface Drainage

9. Positive surface gradients of at least 2 percent to be provided within 5 feet of the buildings to direct surface water away from the foundations and slabs towards suitable discharge facilities. Ponding of surface water not allowed adjacent to the structure or on the pavements. Roof runoff to be carried at least 5 feet away from foundations and slabs and directed to suitable discharge facilities.

Construction Observation

10. All grading and earthwork to be performed under the observation of the Owners Soils Engineer to check that the site is properly prepared, the selected fill materials are satisfactory, and that placement and compaction of the fills has been performed as required. Sufficient notification prior to earthwork is required.

Variations in soil conditions are possible and may be encountered during construction. In order to permit correlations between the soil data obtained during field and laboratory investigations and the actual subsurface conditions encountered during construction and to observe conformance with the plans and these requirements, it is required that continuous or intermittent review during the earthwork, excavation and foundation construction phases be performed by the Soils Engineer retained by the Owner.

11. The contractor is required to hire a testing laboratory to perform compaction tests. The test results shall be submitted to the city's construction engineer prior to any paving.

Tree Protection Notes

1. No Construction / Equipment shall be within the dripline of the TREES.
2. Trees shall be irrigated a minimum of two times a month during construction.

Grading

1. Grading contractor shall maintain a water truck on site during all grading activity to water grade material and control dust. Contractor shall cover stockpiled dirt with plastic and anchor the plastic to the ground. All grading, earth-moving or excavation shall cease when winds exceed 20 mph.

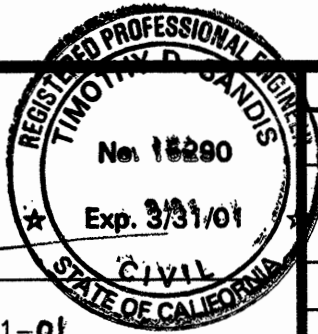
RECORD DRAWING, NOVEMBER 19, 1998

605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel. (415) 969-6900
Fax. (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8/12/97
SCALE: NONE
DRAWN BY: E.T.
APPROVED BY: GBC
DRAWING NO.: 297136

DATE: 8/13/1997
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01



No.	REVISION	DATE	BY

MOUNTAIN VIEW

TRACT NO. 8987
310 TYRELLA AVENUE
GENERAL NOTES

CALIFORNIA

SHEET

C-2

OF 7 SHEETS

7213-02

Copyright © 1996 by Sandis Humber Jones

297136

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOCOPY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM, WITHOUT PERMISSION IN WRITING FROM SANDIS HUMBER JONES.

Construction Notes

General

- All work to be in accordance with the Standard Provisions of the City of Mountain View, adopted January 1988 and amended March 1990, and the latest edition of the State of California Standard Specifications (July 1992).
- Normal working hours for City Public Works Construction Inspectors are 7:30 a.m. to 4:00 p.m., Monday through Friday. The cost of overtime for city inspection will be charged to the Contractor if the Contractor works before 7:30 a.m., after 4:00 p.m., or on Saturday, Sunday or holidays.
- City Public Works Construction Section shall be provided with grading notes showing cuts and fills for all improvements to be inspected by the City.
- A permit, an approved backflow prevention device and a city meter are required for temporary construction water from fire hydrants and/or existing water services during construction. Contact the meter shop at (415)903-6329 for further information.
- A tree removal permit is required from the City Parks Division to remove any heritage tree or street tree either on private property or in the City right-of-way.

Notification

- Contractor shall notify the Public Works Director at least two (2) working days prior to commencing work or if work has been suspended for a period of more than twenty-four (24) hours.
- Contractor shall leave an emergency phone number with the emergency communications center at (415)903-6395 and keep the center informed daily regarding detours.
- Contractor shall contact USA (Underground Service Alert) at (800)642-2444 forty-eight (48) hours prior to beginning work to verify existing underground utilities.
- Contractor shall notify all public or private utility owners forty-eight (48) hours prior to commencement of work adjacent to the utility unless excavation permit specifies otherwise.
- Contractor shall give forty-eight (48) hours notice to the City Public Works Construction Inspectors at (415)903-6211 before making connection to existing water facilities. The inspectors will notify the City's Water Division foreman to schedule a City Water Division Crew. At all times, the manipulation of existing or new valves shall be done by Water Division personnel.
- All project owners, contractors and/or developers are required to call for inspections a minimum of two (2) working days in advance of the required inspection time.

Utilities

- Water meter registers shall be oriented such that readings can be made from a paved area.
- All cuts into existing sewer mains shall be machine taps made by the Tap Tite Co., (408)365-7557, or approved equal, unless shown otherwise.
- Water meters and sanitary sewer cleanouts shall be located per the City Standard Provisions.
- One-inch meter boxes shall be used for meters that are 1" or smaller.
- City Standard Details D-1 and D-13 are hereby revised to replace the insulating meter coupling of flange with a 6" PVC section of pipe. For a 3/4" meter installation, a standard 5/8" x 3/4" x 3/4" Mueller H-10890 meter coupling shall be connected to a 3/4" Fip brass coupling connected to a 3/4" x 6" long schedule 80 PVC threaded Mip nipple. For a 1" meter installation, the tappiece and brass coupling shall be 1" in diameter. For a 1-1/2" or 2" meter installation, the 6" long (same diameter as meter) PVC threaded Mip nipple shall be screwed directly into the threaded flange connection at the meter.
- All D.I.P. water lines installed shall be wrapped in an 8-Mil Polyethylene sleeve.
- All new water mains and fire services shall be (PVC) Class 200-ANSI/AWWA C-900 with epoxy coated valves and fittings that are wrapped in 8 mil. polyethylene.
- All new water services smaller than 4" shall be type K copper.
- No connection shall be allowed between the pipe and the anode prior to testing and approval by the Engineer.
- The City will make final anode wiring connections provided that the wires are properly marked or a drawing is submitted to identify the wires.
- All backflow devices shall be of a reduced-pressure principle type, as listed in the City Standard Provisions. No connection between the backflow preventer and water meter will be permitted, backflow preventers smaller than 2.5" shall be placed directly behind the water meter, unless there is a conflict with other utilities, driveways or sidewalks. Backflow preventers 2.5" or larger shall be placed as close to the meter as possible, unless an exemption is granted by the Public Services Department. If an exemption is granted, the trenches shall be left open so that the City can verify there are no connections between the backflow preventer and meter. The City reserves the right to test the system to ensure that these requirements are met.
- The contractor shall pay all utility company connection charges for street light services. The contractor shall install a pullbox at the base of the riser pole or connect to the nearest underground electric secondary box for all new streetlight electric service points.

Street Improvements

- All underground utilities shall be completed before placing of base rock unless otherwise noted.
- Contractor shall reset manhole rims and valve boxes to grade immediately prior to placing the last lift of paving. Contractor shall, at all times, maintain the gate valve risers to grade and free of foreign material for gate valves needed for emergency operation as determined by the engineer.
- The Contractor is to furnish and install the street name sign posts, sign brackets and street name faceplates.
- Concrete contractor shall verify location of driveways, sewer laterals and water services before pouring curbs and shall mark face of curb with a letter "S" for sewer laterals and a letter "W" for water services.
- All curb, gutter, sidewalk and driveways that are reconstructed shall be replaced within one week after its removal.
- Street trees are to be irrigated by on-site systems and maintained by the property owner per the City Parks Division Standards and the City Standard Provisions.

Health and Safety

- The Contractor shall conform to the rules and regulations of the State Construction Safety Orders pertaining to excavation and trenches. A copy of the Construction Safety Orders is available at the City.

- The Prime Contractor is to hire a Street Cleaning Contractor to clean up dirt and debris from city streets that are attributable to the development's construction activities. The street cleaning contractor is to have the capability of sweeping the streets with both a broom-type sweeper and a regenerative air vacuum sweeper as directed by the Public Works Director or his designated representative.
- In order to comply with Section 21.27 of the City Code regarding disturbing noises, construction work shall occur only between the hours of 7:00 a.m. and 6:00 p.m., Monday through Friday, unless an exception is granted by the Public Works Director or his designated representative. Exceptions will be considered only when, in the opinion of the Public Works Director, construction during the above period would inconvenience the public and neighboring residents more than working at other hours or on weekends. Exceptions will not be granted merely to expedite the construction work.
- Contractor shall provide adequate dust control at all times as required by the City.
- Contractor shall furnish and install all signs, lights, barricades, and other traffic control or warning devices, including flagmen, as required by the Public Works Director.

Plan Revisions and Record Drawings

- Any changes in the approved plan must be authorized by signature of the Deputy Public Works Director on the original plans. Each change is to be done by crossing out work to be deleted (Do not erase) and drawing the revision such that previous work can be ascertained from the plans. Each change is to be delineated by enclosing the changed area of the plan with a numbered bubble or other acceptable method. The change shall be entered into the revision block with the revision number, description of the change, date and initials of the engineer. Space shall be provided explaining the requested change, the original plan and one copy of each sheet showing the requested changes.
- The Contractor shall keep complete and accurate record drawings of all new work and of existing conditions that have changed or are different than shown on the originally approved plans. Upon completion of the work, the Contractor's record drawings shall be submitted to the City Inspector for review. The engineer shall make the necessary revisions to the original drawings to show all field changes. The engineer shall verify final grading and shall sign the grading certificate, if applicable, when satisfied that the grading is in accordance with approved plans. Each sheet of the plans shall be stamped "as-built" or "record drawing" and signed by the engineer. The revised originals shall be submitted to the City for review and approval. Prior to the acceptance of the work by the City, the engineer shall provide one Mylar copy (4 mil) of the approved "as-built" plans to the City.

Release

- No residential units will be released for occupancy unless the improvements to be constructed to City Standards and/or to be accepted for maintenance by the City, including water meters and sanitary sewer cleanouts, are substantially complete in accordance with the City of Mountain View Standard Provisions for public works construction. When the improvements to be constructed to City Standards and/or to be accepted for maintenance by the City are substantially complete, one-half of the units may be released for occupancy, provided that all other conditions of approval and building codes have been met. When all of the improvements are complete and/or ready for acceptance for maintenance by the City Council, the remaining units may be released for occupancy, provided that all other conditions of approval and building codes have been met. The determination of what is substantially complete shall be made by the Public Works Director.

Miscellaneous

- Should archaeological artifacts be encountered during construction, then all construction activity in the vicinity must cease, the City must be notified, the significance (if any) evaluated, and appropriate measures taken as approved by the City of Mountain View.

Fire Department

- All Weather Driveway/Common Access Roads: Prior to combustible construction, an all-weather access road capable of supporting emergency vehicles (70,000 pounds) shall be constructed to allow access within 100' of every portion of the project. Roads shall have 13'-6" overhead, 18' of clear width, 28' turning radius and maximum 15' angle of departure (except underground parking garages).

Street Trees:

- Street trees are to be a minimum of 5.0' from water services and a minimum of 10.0' from SS laterals. In accordance with Detail F-1 of the Standard Provision.

Pipe Materials

- Storm Drain - Reinforced concrete pipe (RCP) Class III. (Main and laterals in City right-of-way)

Sanitary Sewer - Vitrified clay pipe (VCP) per ASTM C700. (Main and Lateral)

Water Service - Per Detail D-1 and City Std. w/ Cathodically Protection. A 6" PVC long section of pipe shall be installed at the tail pipe of the meter. No anodes are required at the water service.

Water Mains - Polyvinyl chloride pipe (PVC) Class 200 - ANSI/AWWA C - 900. 1" Max Deflection per Joint, with epoxy coated valves and fittings.

Fire Hydrant services are to be (PVC) Class 200 - ANSI/AWWA C - 900. 1" Max Deflection per Joint, with epoxy coated valves and fittings. The bury and riser shall be cast iron per the Standard Provisions. Mainline fittings are to be ductile iron and wrapped in 8 mil Polyethylene sleeve.

Private Storm Drains - PVC Schedule 40.

Water Services/Meter Sizes:

- Water Service - "See Plan"
Meter - "See Plan"
- If PVC pipe is used on the customer side of the water meter, the 6" long PVC insulating pipe or insulating flanged is not required. If a backflow preventor installed behind the water meter, the 6" long threaded PVC insulating pipe of insulating pipe or insulating flange shall be installed directly behind the backflow preventor and not behind the water meter.
- For water meter installations (on copper water services), an approved angle ball type curb stop with lock wing shall be used in lieu of the curb stop specified in the standard provisions. The angle ball type curb stop shall be screwed directly into the water meter.

Joint Utility Trench:

- Refer to Main Extension & Composite Drawings prepared by PG & E for trench and substructure details and location, enclosed for reference. Contractor to obtain latest drawings from PG & E.

General Notes:

- The Contractor shall be responsible for verifying the elevations of the existing storm drains, sewers and water to be extended or connected to prior to commencing the work. Notify Engineer if actual is different from plans.
- Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged, in connection with the performance of work on the project, excepting liability arising from the sole negligence of design professional.
- Topography shown on the plans represents approximate conditions as of August, 1996.
- Contractor shall replace or repair, at Contractor's own expense, all damaged, removed, or otherwise disturbed walls, fences, services, utilities, improvements or features of whatever nature to their original condition whether shown on the plans or not; provided such repair or replacement is caused by contract work operators.
- All work shall be in conformance with the Geotechnical Report prepared by Globe Soils Engineers. All grading work geotechnical considerations shall be performed in accordance with the Geotechnical Report and to the satisfaction of the Soils Engineer.
- Inspection and testing by Owner's Soils Engineer is required. The Soil Engineer's area of responsibility shall include professional inspection and certification concerning the preparation of ground to receive fills, and testing for required compaction. During grading, all necessary reports, compaction data and soil engineering recommendations shall be submitted to the Owner and the building official by the Soils Engineer.
- Unauthorized changes & uses: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.
- Locations of existing underground facilities and utilities shown are approximate and are based on field survey and/or available utility company information. It is the contractor's responsibility to verify the actual location of utilities prior to the commencement of work. As required, physical verification of utility location shall be performed by potholing or hand digging and careful subsurface probing in conformance with Article 6 of the CAL/OSHA construction safety order. Any deviations from locations shown on the plans shall be brought to the Engineers attention before starting construction.
- Street Monument Staking: Sandis Humber Jones will set straddlers for street monuments to be constructed by contractor. Straddlers to be saved until monuments are punched by Sandis Humber Jones.
- Private street name signs shall have white reflective letters on a green reflective background. The phrase "PRIVATE STREET" in 3 inch letters shall be included on each sign. The sign, lettering and post shall conform to the City's standard detail A-13. All private street names must be approved by the city's traffic engineer.
- City wheelchair ramp details A-16 and A-17 are hereby amended. The ramp shall be constructed with a 1/2" lip beveled at 45% per state standard detail A88. The herringbone groove pattern shall not be installed. The 12" wide groove border shall not be constructed on the slope of the ramp. The grooved border shall have the same slope as the adjacent sidewalk.
- In event of a street closure and detour that is three or more consecutive days and is caused by the Contractors operation, the Contractor shall notify the U.S. Postal Services Customer Services Manager at (415) 967-5721 twenty-four (24) hours prior to the street closure.

Earthwork

General

- The Owner is required to hire a testing laboratory to perform compaction tests. The test results shall be submitted to the City's Construction Engineer prior to any paving.

Clearing and Site Preparation

- The site is to be cleared of all surface and subsurface deleterious materials including any existing structures and associated foundations, buried utility lines, unless otherwise advised by Owners Soils Engineer, pavements, concrete slabs, debris, designated trees and shrubs and associated roots. In addition, portions of the shopping center with below-grade or basement levels to be completely excavated unless otherwise advised by Owners Soils Engineer. Excavations extending below the planned finish site grades shall be cleaned and backfilled with suitable material compacted to the recommendations given under the "Compaction" section. All backfilling to be carried out under the observation of the Owners Soil Engineer to assure that fill placement is performed in accordance with these recommendations.

Subgrade Preparation

- After clearing, areas to be developed to be stripped to sufficient depth to remove all surface vegetation and organic laden topsoil. The actual stripping depth to be established in the field by the Soils Engineer at the time of construction. The stripped materials should be removed from the site or may be stockpiled for use in landscaped areas as directed by the Owner. After the site has been properly cleared and the necessary excavations made, the exposed surface soils in those areas to receive fill, slabs-on grade or pavements to be scarified to a depth of 6 inches, moisture conditioned to slightly above optimum moisture content, and compacted in accordance with the requirements for structural fill given below under the section entitled "Compaction".

Material for Fill

- All on-site soils having an organic content of less than 3 percent by volume are suitable for use as fill at the site. Fill material not to contain rocks or lumps larger than 6 inches in greatest dimension, with no more than 15 percent larger than 2.5 inches. Imported fill material to be predominantly granular with a plasticity index of 15 or less.

Reuse of Onsite Recycled Materials

- Asphaltic or Portland cement concrete may be used as engineered fill if ground up and thoroughly mixed with onsite or import clayey or sandy soil. In general, recycled asphalt or concrete to be ground down to less than 4 inches in greatest dimension, with no more than 25 percent larger than 2.5 inches. Ground recycled material to be mixed with a sufficient amount of fine-grained or sandy soil, such that there is no more than 30 percent by weight of recycled material in the final mix.

Fill containing recycled asphalt and concrete to be spread out evenly across the site, and placed near the bottom of any proposed fills. In addition, recycled fill not to be used within 2 feet of finished grade in building or roadway areas.

Compaction

- All fill as well as scarified surface soils in those areas to receive fill of slabs-on-grade to be compacted by mechanical means to at least 90 percent relative compaction as determined by ASTM Test Designation D-1557, latest edition. Fill to be placed in lifts not exceeding 8 inches in uncompacted thickness. Fills greater than 5 feet in thickness to be compacted to at least 95 percent relative compaction for the portion of fill below the upper 5 feet. The upper 6 inches of subgrade in pavement areas as well as all aggregate base and subbase to be compacted to at least 95 percent relative compaction (ASTM D-1557, latest edition). The existing native soils to be compacted at a moisture content slightly above the laboratory optimum.

Trench Backfill

- All utility trenches to be backfilled with compacted fill in accordance with City of Mountain View requirements, or the following, whichever is more stringent. Fill material to be placed in lifts not exceeding 3 inches in uncompacted thickness and to be compacted to at least 90 percent relative compaction (ASTM D-1557, latest edition) by mechanical means only. The upper 6 inches of backfill in all pavement and slab areas to be compacted to at least 95 percent relative compaction.

Temporary Slopes

- The Contractor to be responsible for all temporary slopes excavated at the site and the design of any required temporary shoring. Shoring and bracing to be provided by the Contractor in accordance with the strictest governing safety standards.

All temporary slopes and trenches excavated in the natural clayey soils and less than 5 feet deep below the ground surface may be cut vertical. All other unshared slopes greater than 5 feet deep should be cut to inclinations of 1:1 (horizontal:vertical). Because of the variable nature of the existing soil, field modifications of temporary cut slopes may be required. Unstable materials encountered on the slopes during the excavation should be trimmed off even if this requires cutting the slope back at flatter inclinations.

Surface Drainage

- Positive surface gradients of at least 2 percent to be provided within 5 feet of the buildings to direct surface water away from the foundations and slabs towards suitable discharge facilities. Ponding of surface water not allowed adjacent to the structure or on the pavements. Roof runoff to be carried at least 5 feet away from foundations and slabs and directed to suitable discharge facilities.

Construction Observation

- All grading and earthwork to be performed under the observation of the Owners Soils Engineer to check that the site is properly prepared, the selected fill materials are satisfactory, and that placement and compaction of the fills has been performed as required. Sufficient notification prior to earthwork is required.

Variations in soil conditions are possible and may be encountered during construction. In order to permit correlations between the soil data obtained during field and laboratory investigations and the actual subsurface conditions encountered during construction and to observe conformance with the plans and these requirements, it is required that continuous or intermittent review during the earthwork, excavation and foundation construction phases be performed by the Soils Engineer retained by the Owner.

- The contractor is required to hire a testing laboratory to perform compaction tests. The test results shall be submitted to the city's construction engineer prior to any paving.

Tree Protection Notes

- No Construction / Equipment shall be within the dripline of the TREES.
- Trees shall be irrigated a minimum of two times a month during construction.

Grading

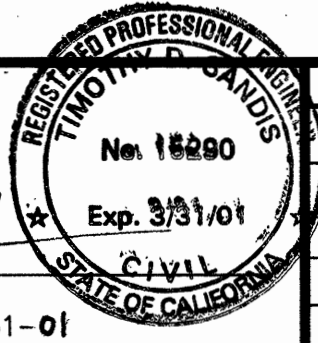
- Grading contractor shall maintain a water truck on site during all grading activity to water grade material and control dust. Contractor shall cover stockpiled dirt with plastic and anchor the plastic to the ground. All grading, earth-moving or excavation shall cease when winds exceed 20 mph.

605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel. (415) 969-6900
Fax (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8/12/97
SCALE: NONE
DRAWN BY: E.T.
APPROVED BY: GBC
DRAWING NO: 297136

DATE: 8/13, 1997
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01



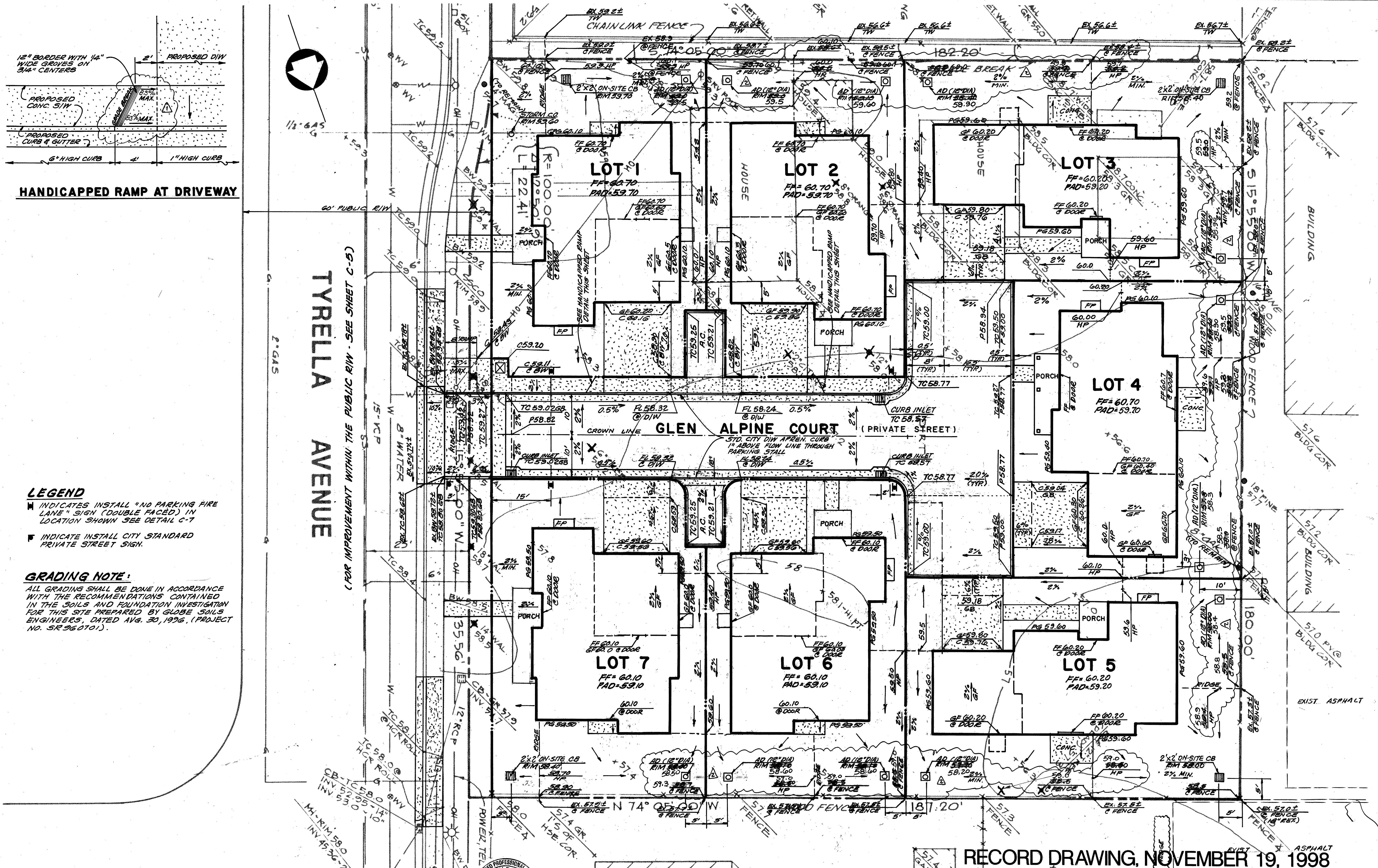
No.	REVISION	DATE	BY

MOUNTAIN VIEW

TRACT NO. 8987
310 TYRELLA AVENUE
GENERAL NOTES

CALIFORNIA

SHEET
C-2
OF 7 SHEETS



605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel. (415) 969-6900
Fax. (415) 969-6472

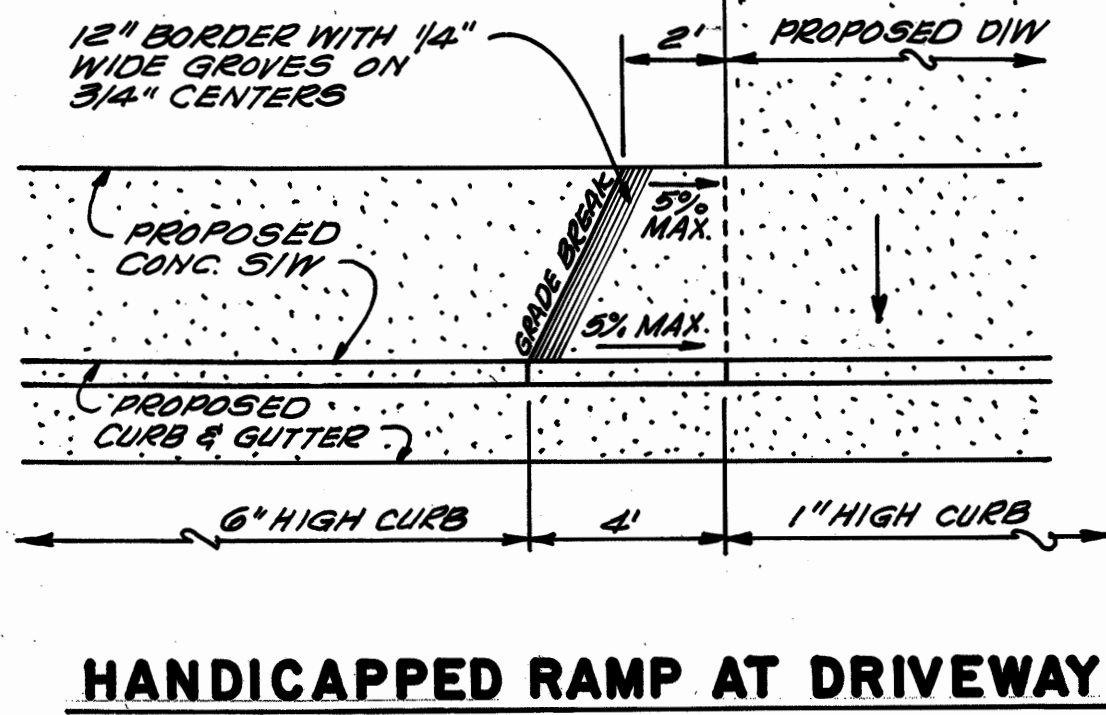
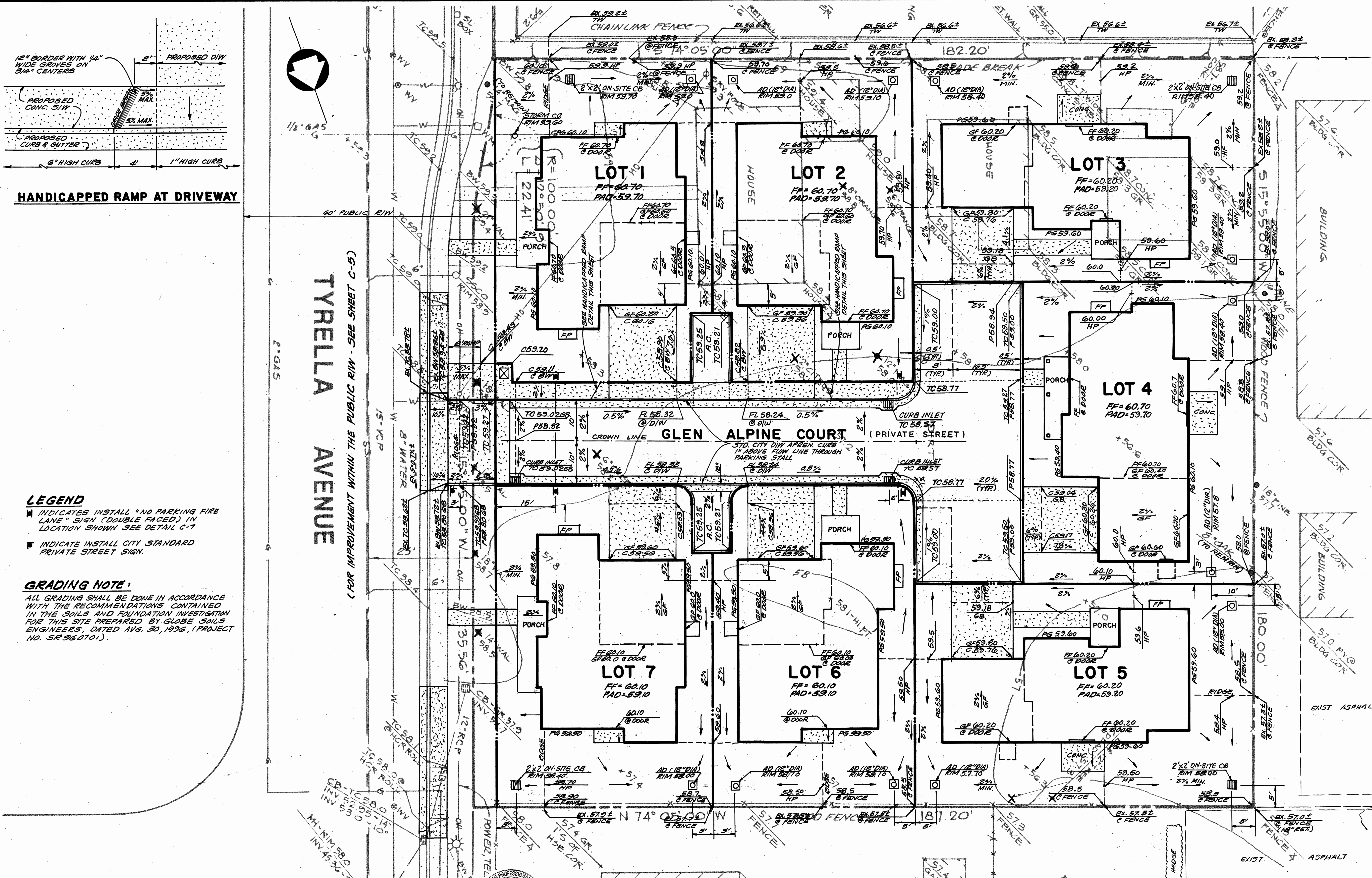
SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8-12-97
SCALE: 1"=30'
DRAWN BY: E.M.
APPROVED BY: G.B.C.
DRAWING NO: 297136
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01

NO.	REVISION	DATE	BY
1	REVISED GRADES H.C. RAMP	9-21-98	G.B.C.
2	REVISED GRADES REPAVED	11-20-98	G.B.C.

TRACT NO. 8987
310 TYRELLA AVENUE
GRADING & DRAINAGE PLAN
MOUNTAIN VIEW CALIFORNIA
SHEET **C-3** OF 7 SHEETS

7213-03



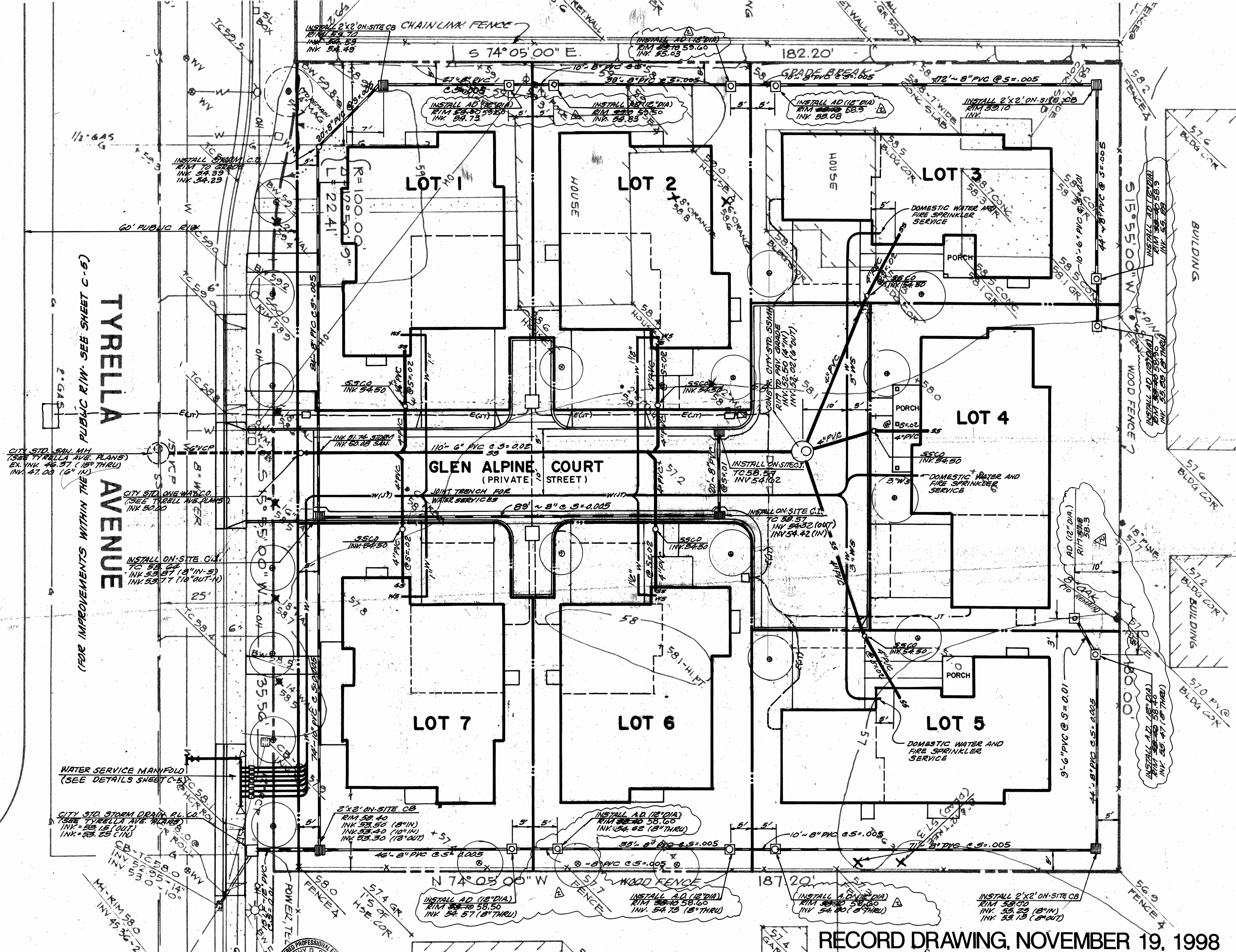
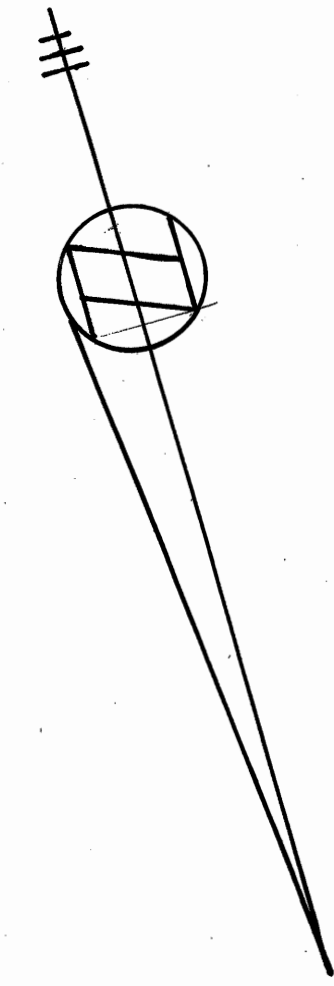
HANDICAPPED RAMP AT DRIVEWAY

LEGEND

- INDICATES INSTALL "NO PARKING FIRE LANE" SIGN (DOUBLE FACED) IN LOCATION SHOWN SEE DETAIL C-7
- INDICATE INSTALL CITY STANDARD PRIVATE STREET SIGN.

GRADING NOTE:

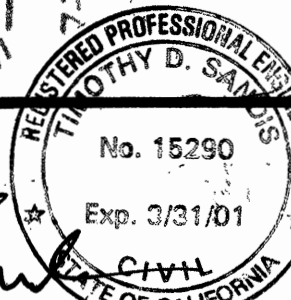
ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE SOILS AND FOUNDATION INVESTIGATION FOR THIS SITE PREPARED BY GLOBE SOILS ENGINEERS, DATED AUG. 30, 1996, (PROJECT NO. SR 960101).



605 Castro Street
PO Box 640
Mountain View CA
94042-0640
Tel (415) 969-6900
Fax (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8/12/97
SCALE: 1"=20'
DRAWN BY: EM.
APPROVED BY: S.C.
DRAWING NO: 201186
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01



No.	REVISION	DATE	BY
1	REVISED GROUND CONDITIONS RET. WALL BUILDS @ 10" HIGH	11-20-98	S.C.

RECORD DRAWING, NOVEMBER 19, 1998

TRACT NO. 8987
310 TYRELLA AVENUE
UTILITIES PLAN

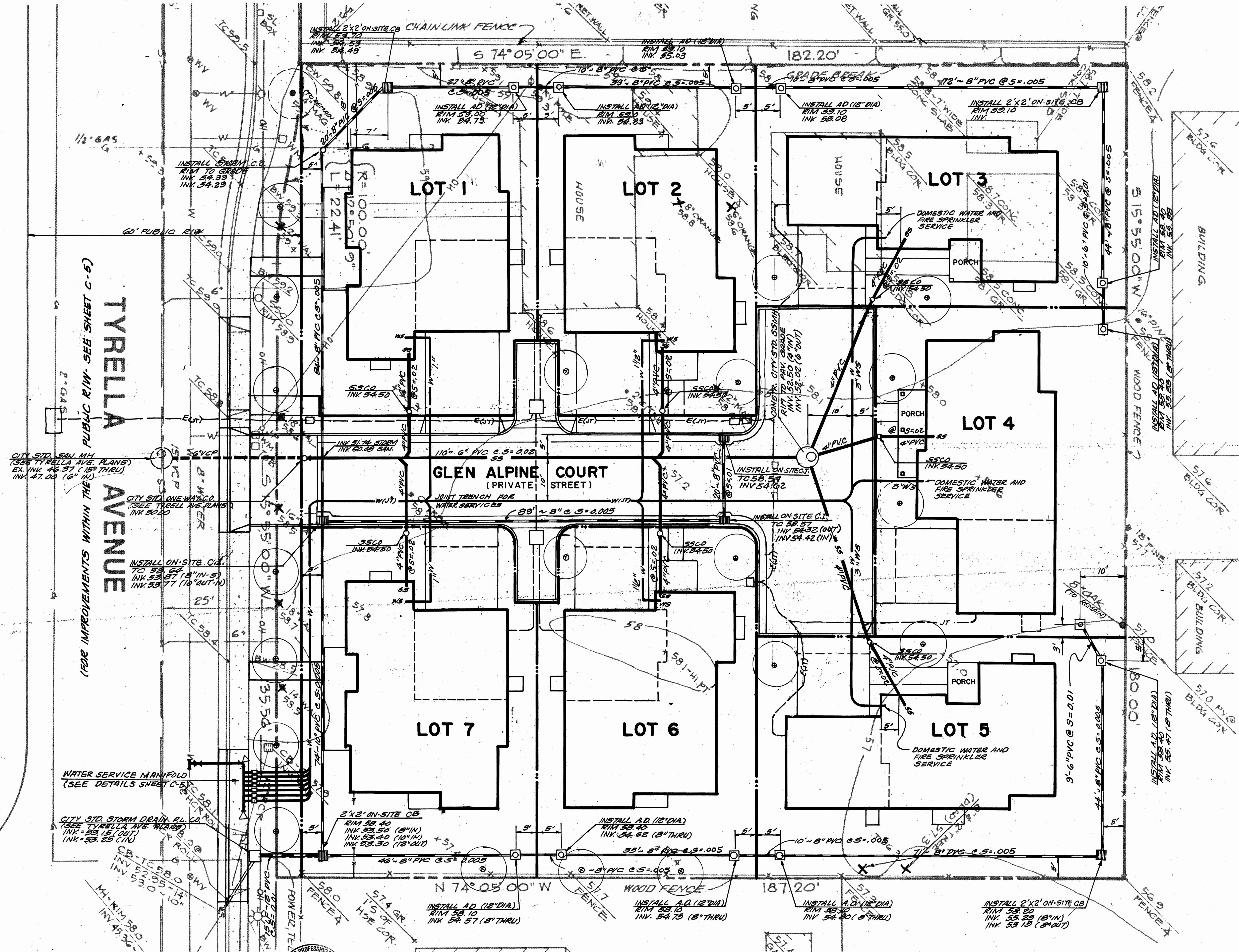
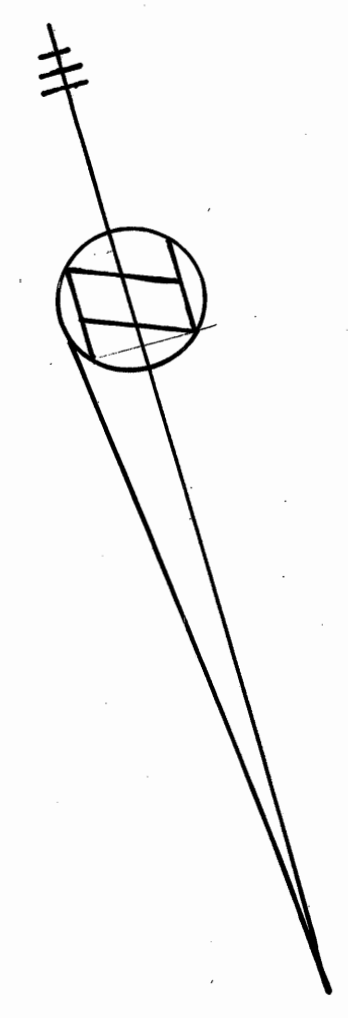
MOUNTAIN VIEW

CALIFORNIA

SHEET
C-4

OF 7 SHEETS

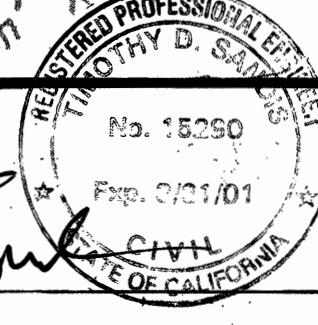
7213-04



605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel (415) 969-6900
Fax (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8-12-97
SCALE: 1"=20'
DRAWN BY: EM.
APPROVED BY: S.B.C.
DRAWING NO: 297136
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01



No.	REVISION	DATE	BY

TRACT NO. 8987
310 TYRELLA AVENUE
UTILITIES PLAN

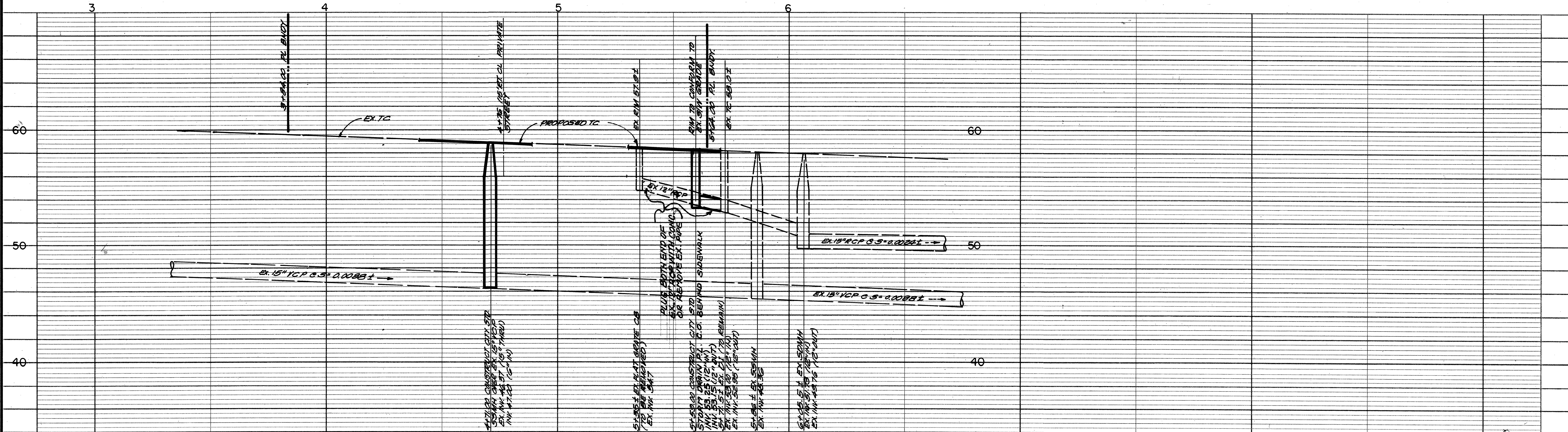
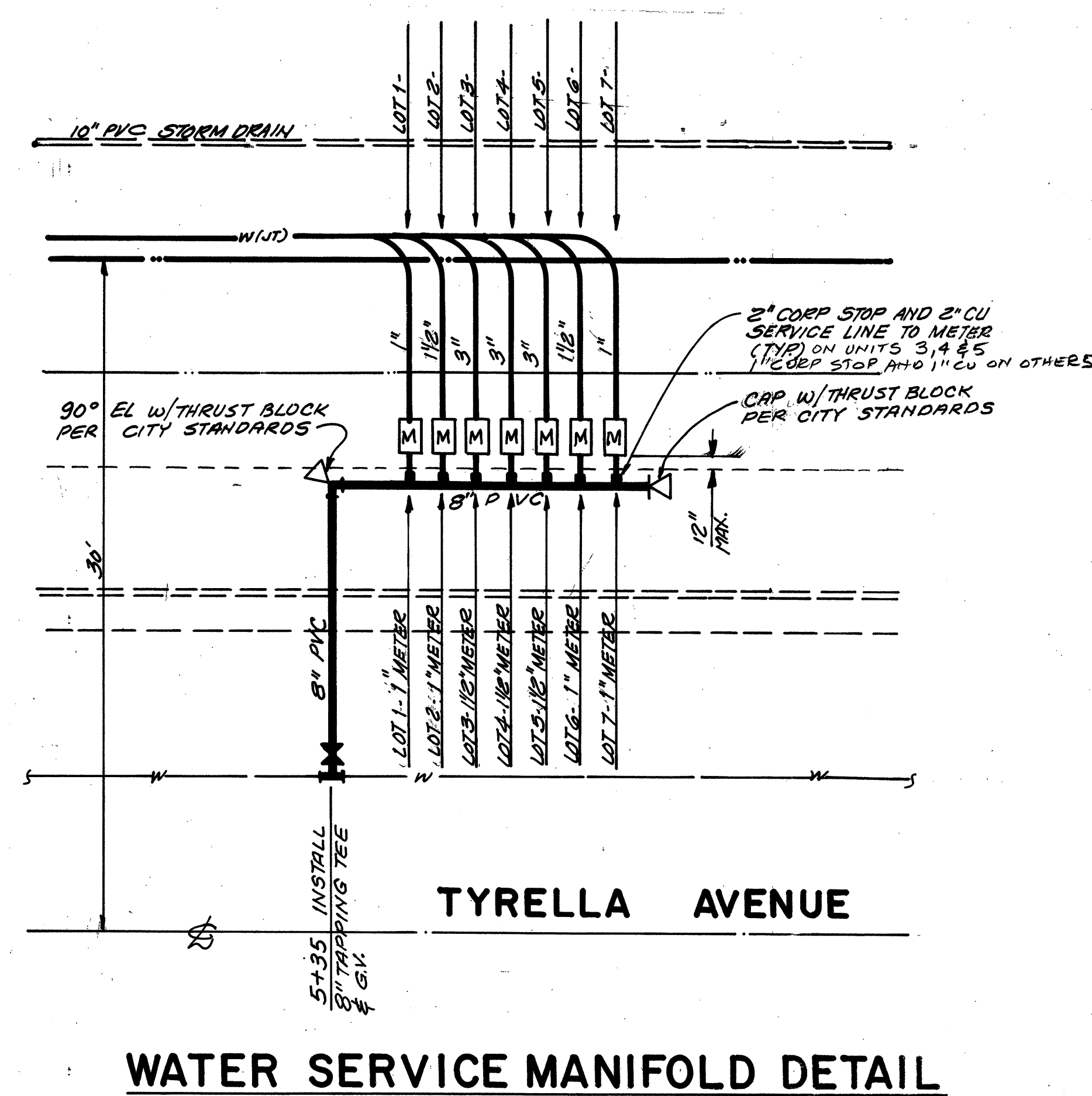
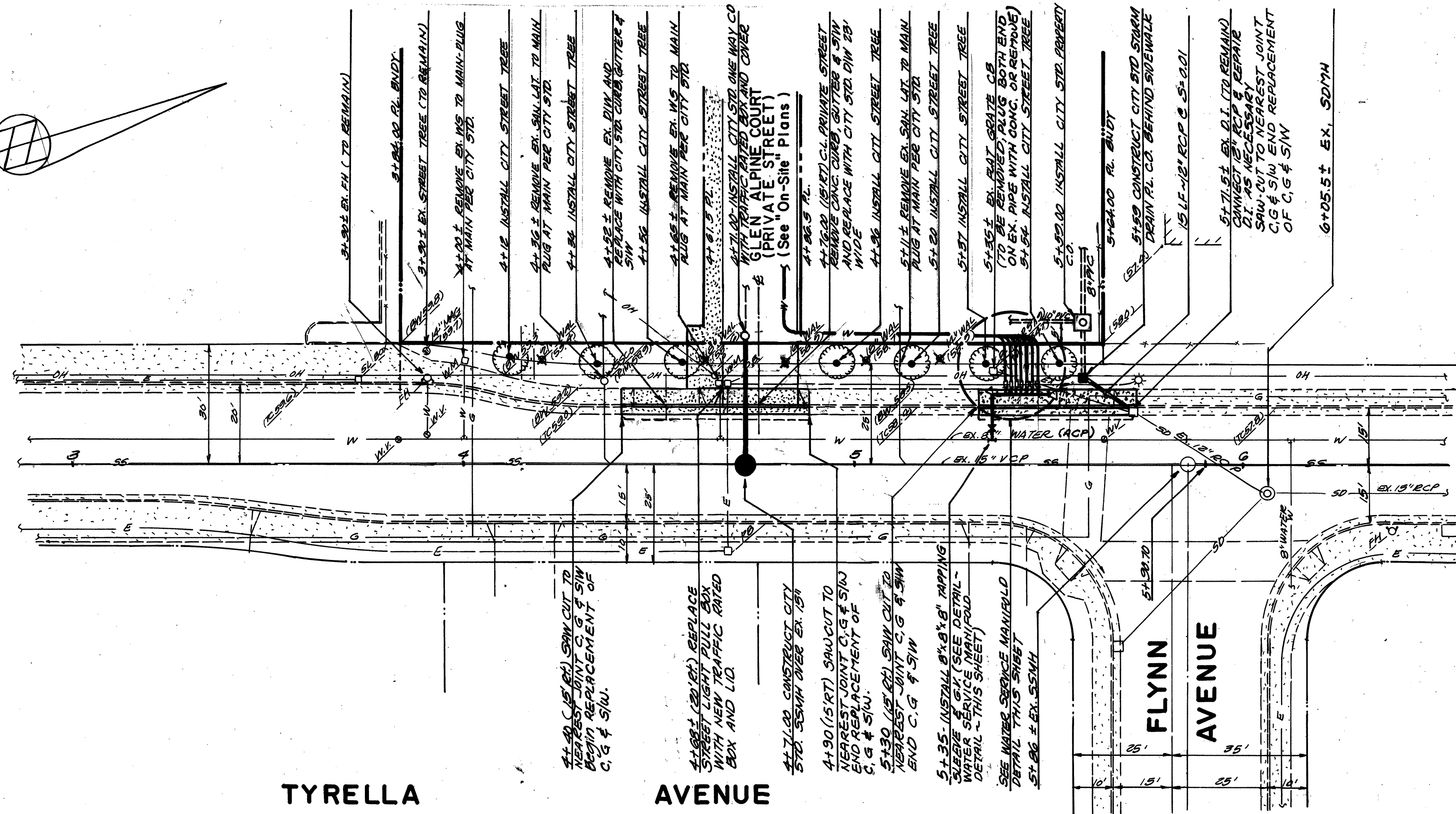
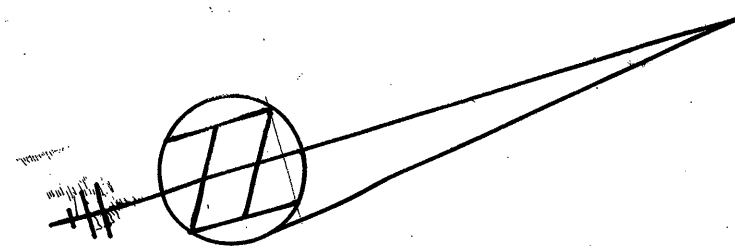
MOUNTAIN VIEW

CALIFORNIA OF 7 SHEETS

C-4

7213-04

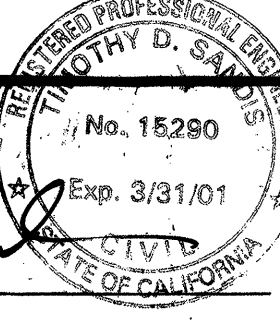
NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOGRAPHY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM WITHOUT PERMISSION IN WRITING FROM SANDS HUMBER JONES



605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel. (415) 969-6900
Fax. (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8-12-97
SCALE: 1" = 20'H, 2" V
DRAWN BY: EMT
APPROVED BY: GBC
DRAWING NO: 297136
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01



No.	REVISION	DATE	BY

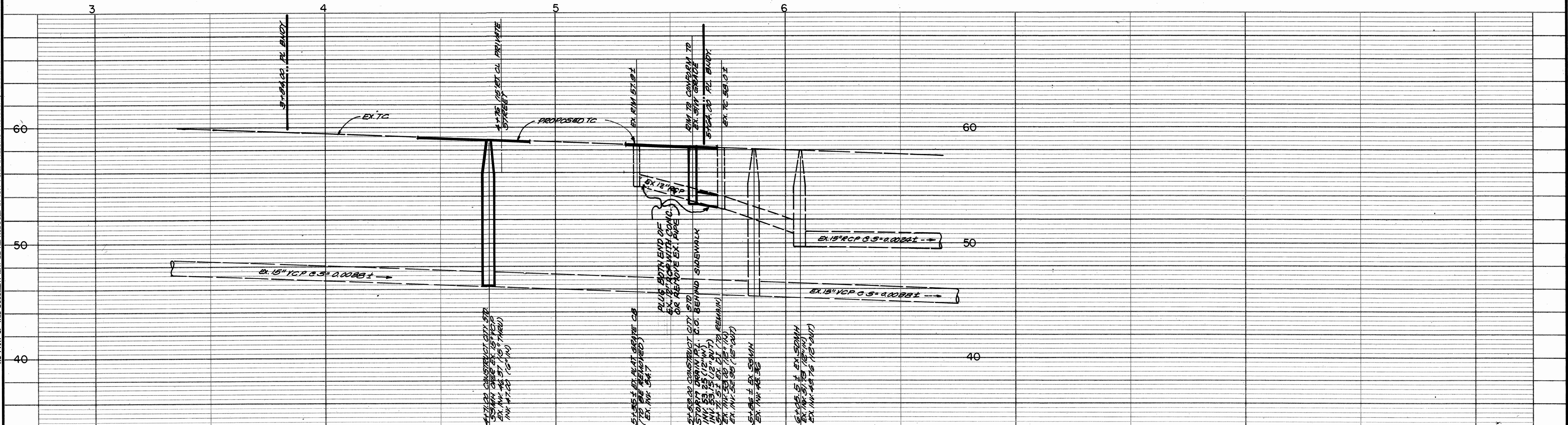
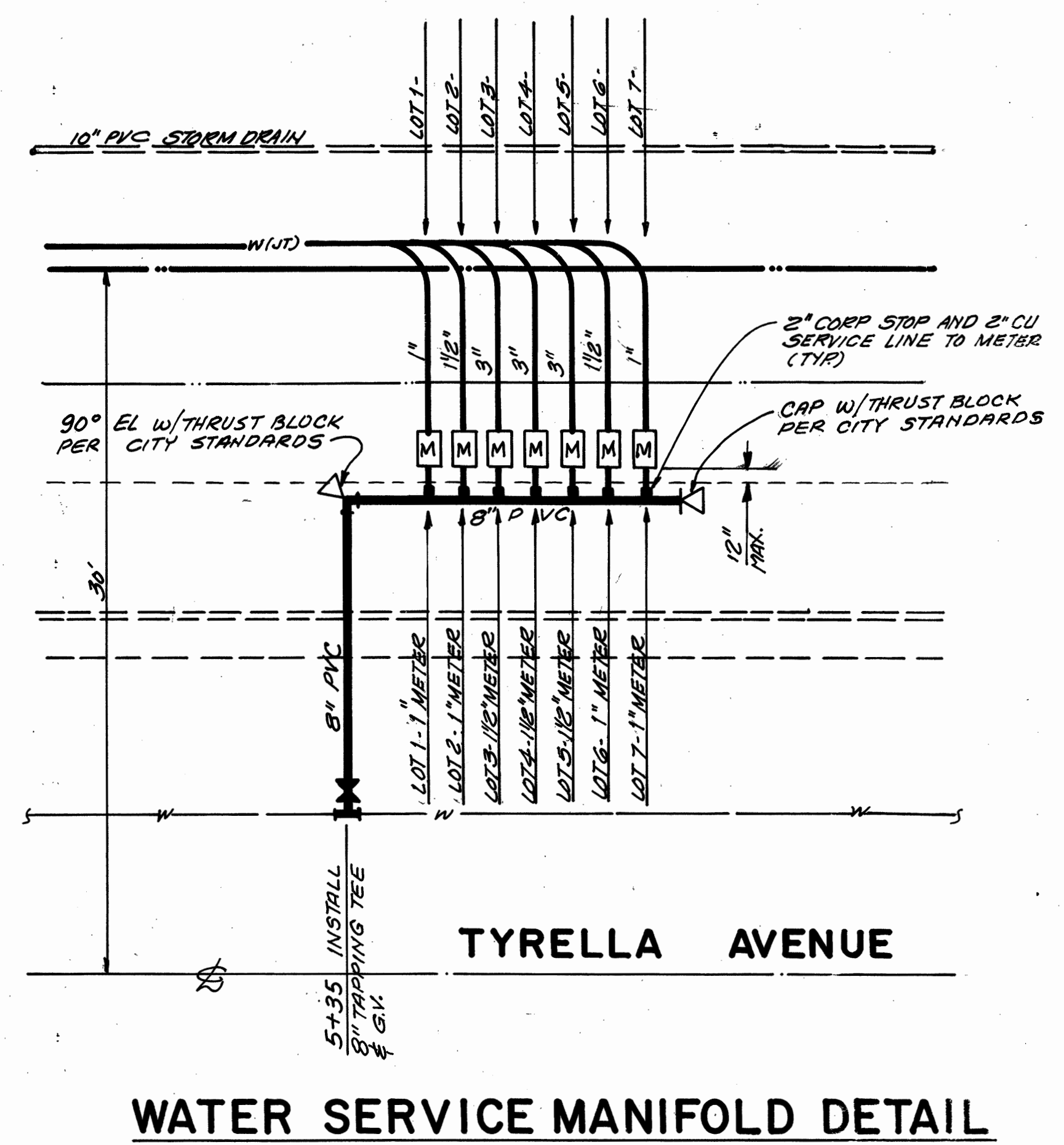
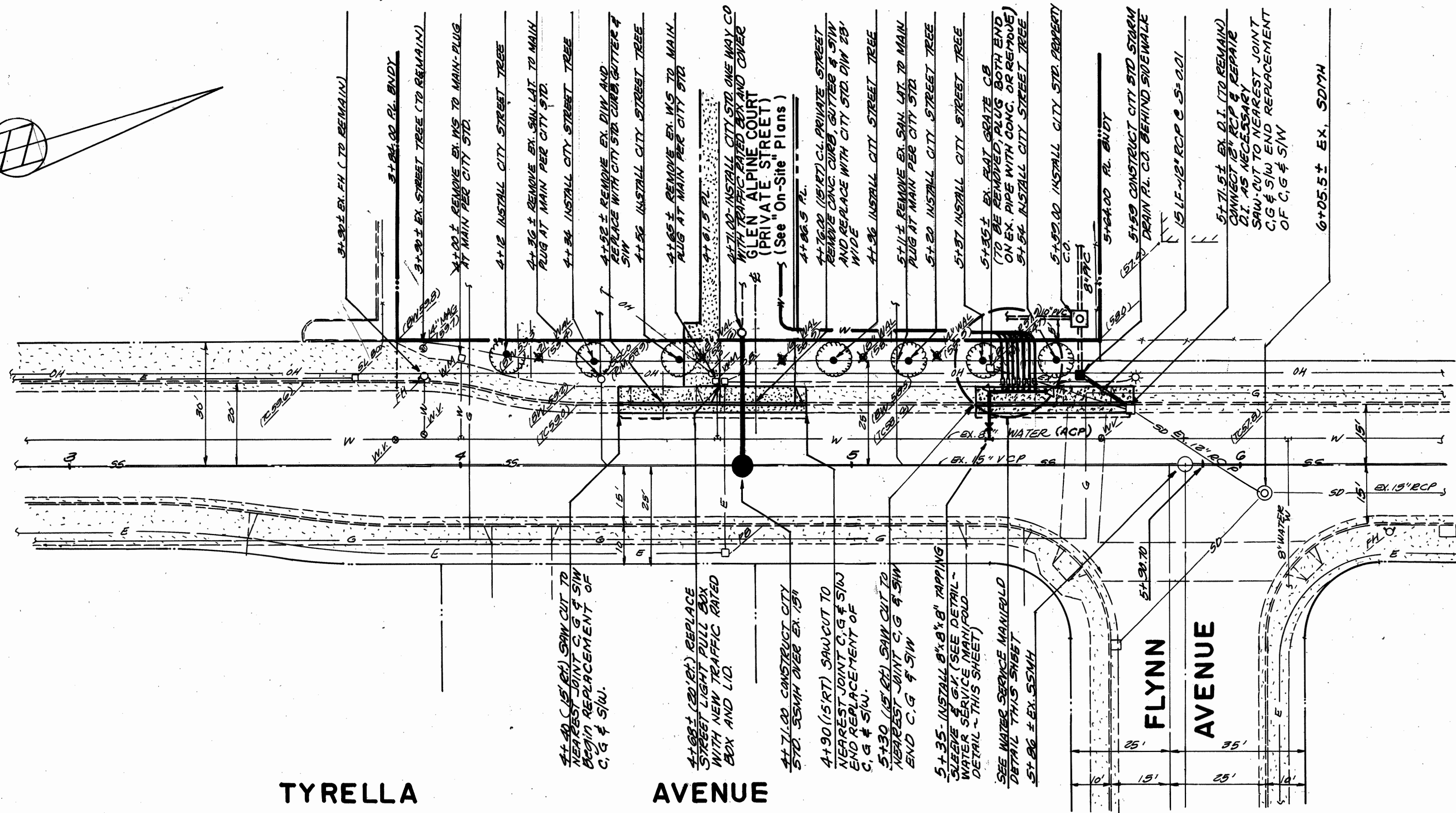
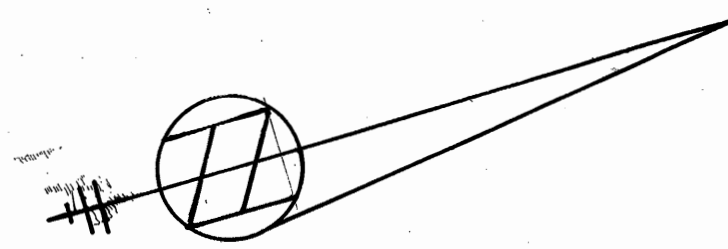
RECORD DRAWING, NOVEMBER 19, 1998

TRACT NO. 8987
310 TYRELLA AVENUE
'OFF-SITE' PLAN AND PROFILES
MOUNTAIN VIEW
CALIFORNIA
SHEET
C-5
OF 7 SHEETS

7213-05

5-25-97
297136

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOGRAPHY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM WITHOUT PERMISSION IN WRITING FROM SANDIS HUMBER JONES.



605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel (415) 969-6900
Fax (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8-12-97
SCALE: 1"=20'H; 2"V
DRAWN BY: EM
APPROVED BY: GBC
DRAWING NO.: 297136

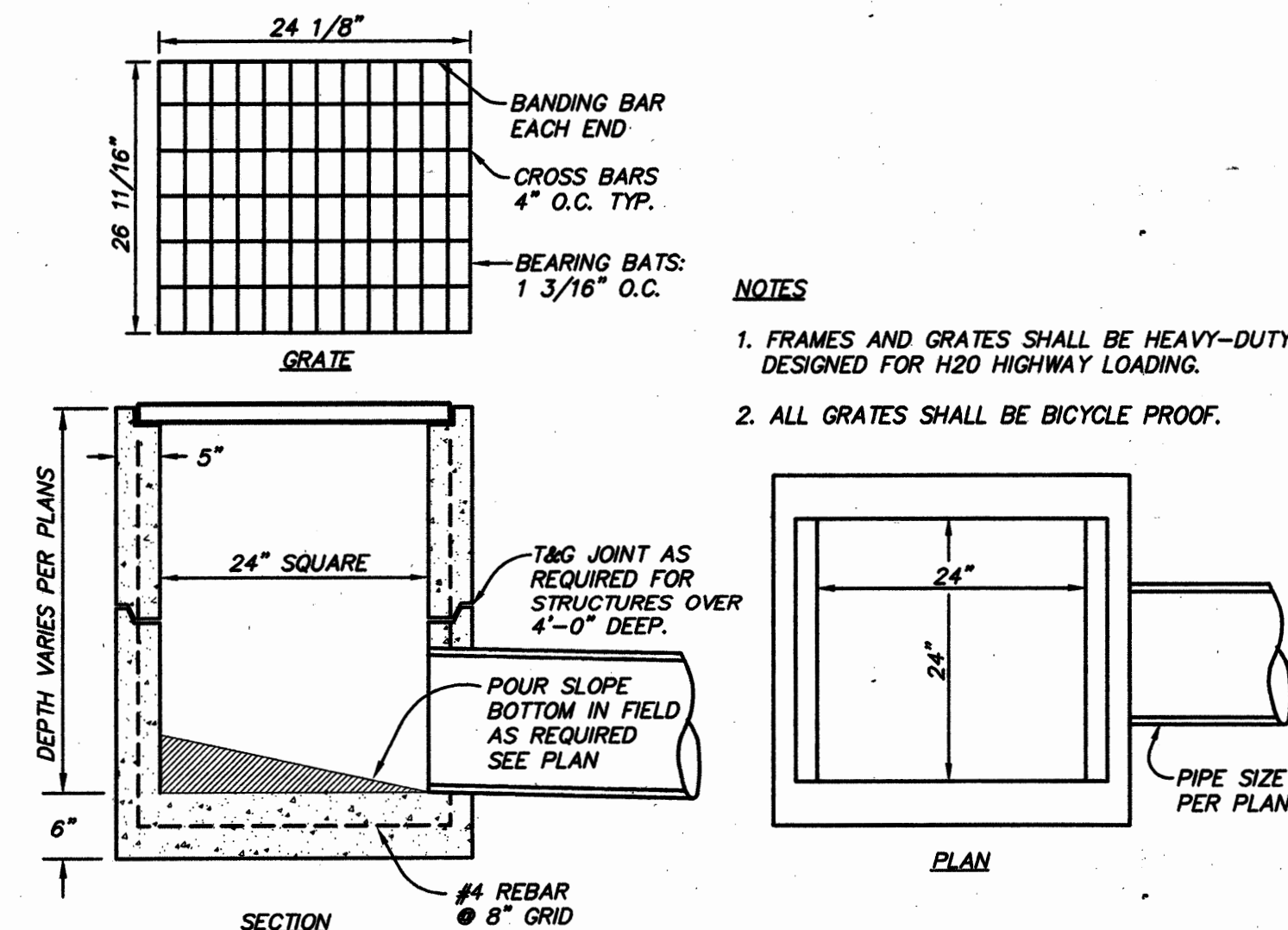
DATE: 2/3 1997
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01

No.	REVISION	DATE	BY

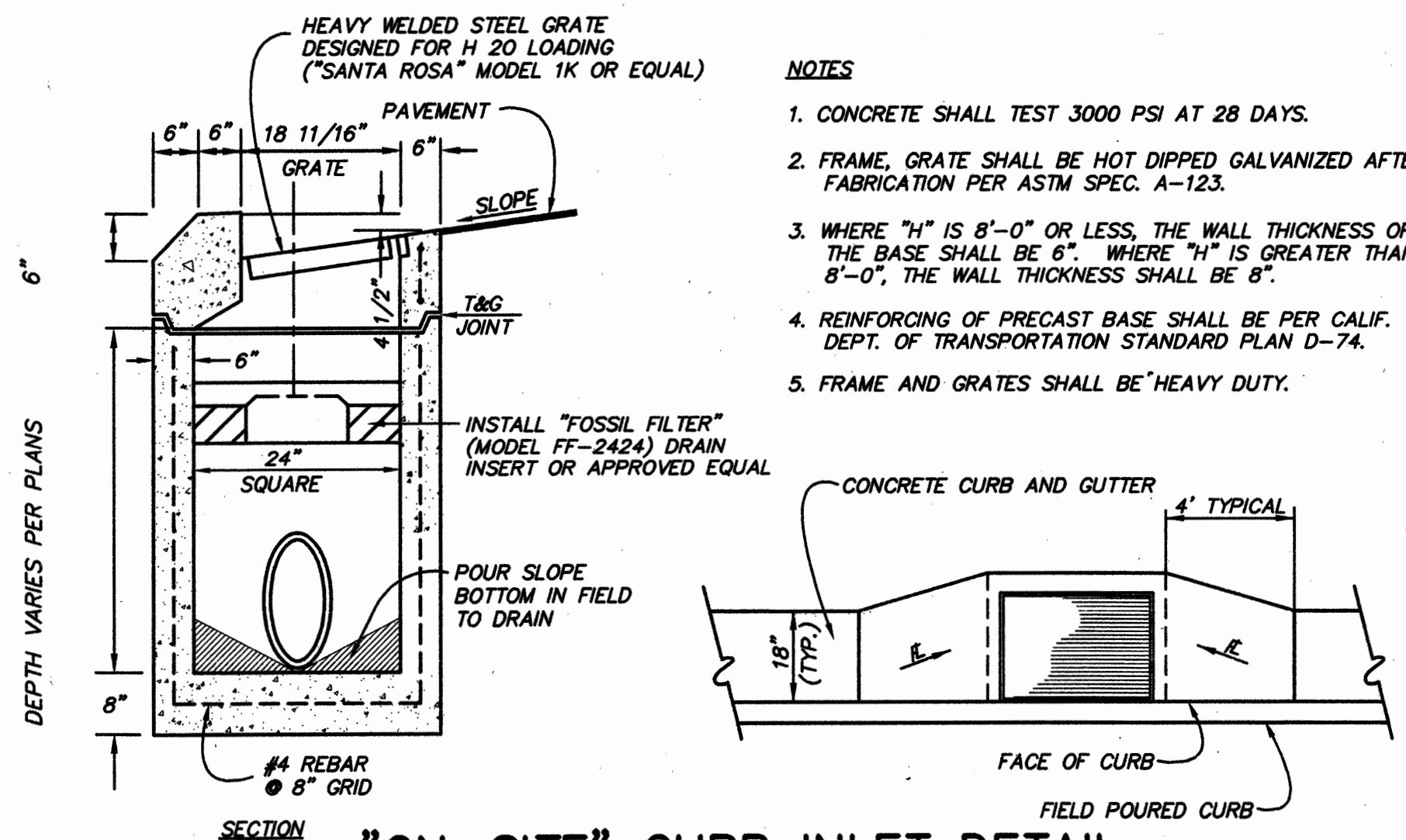
TRACT NO. 8987
310 TYRELLA AVENUE
"OFF-SITE" PLAN AND PROFILES
MOUNTAIN VIEW CALIFORNIA

SHEET
C-5
OF 7 SHEETS

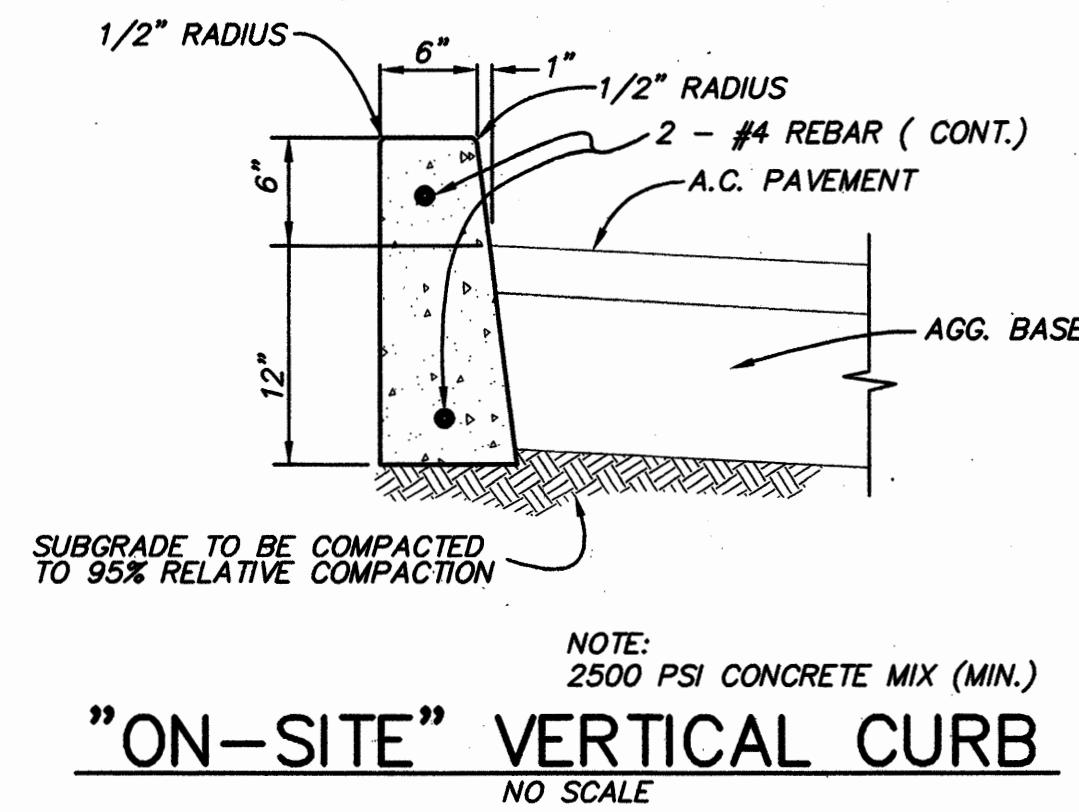
NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOGRAPHY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM WITHOUT PERMISSION IN WRITING FROM SANDIS HUMBER JONES.



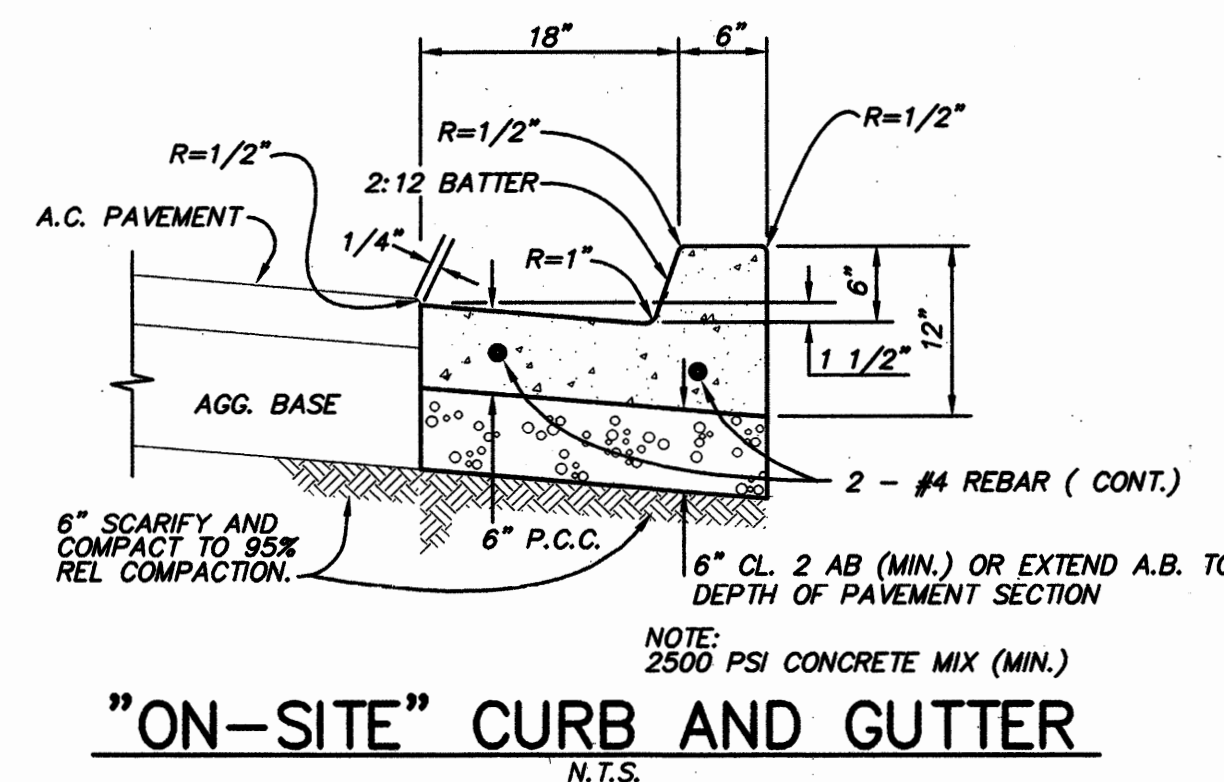
"ON-SITE" CATCH BASIN DETAIL
N.T.S.



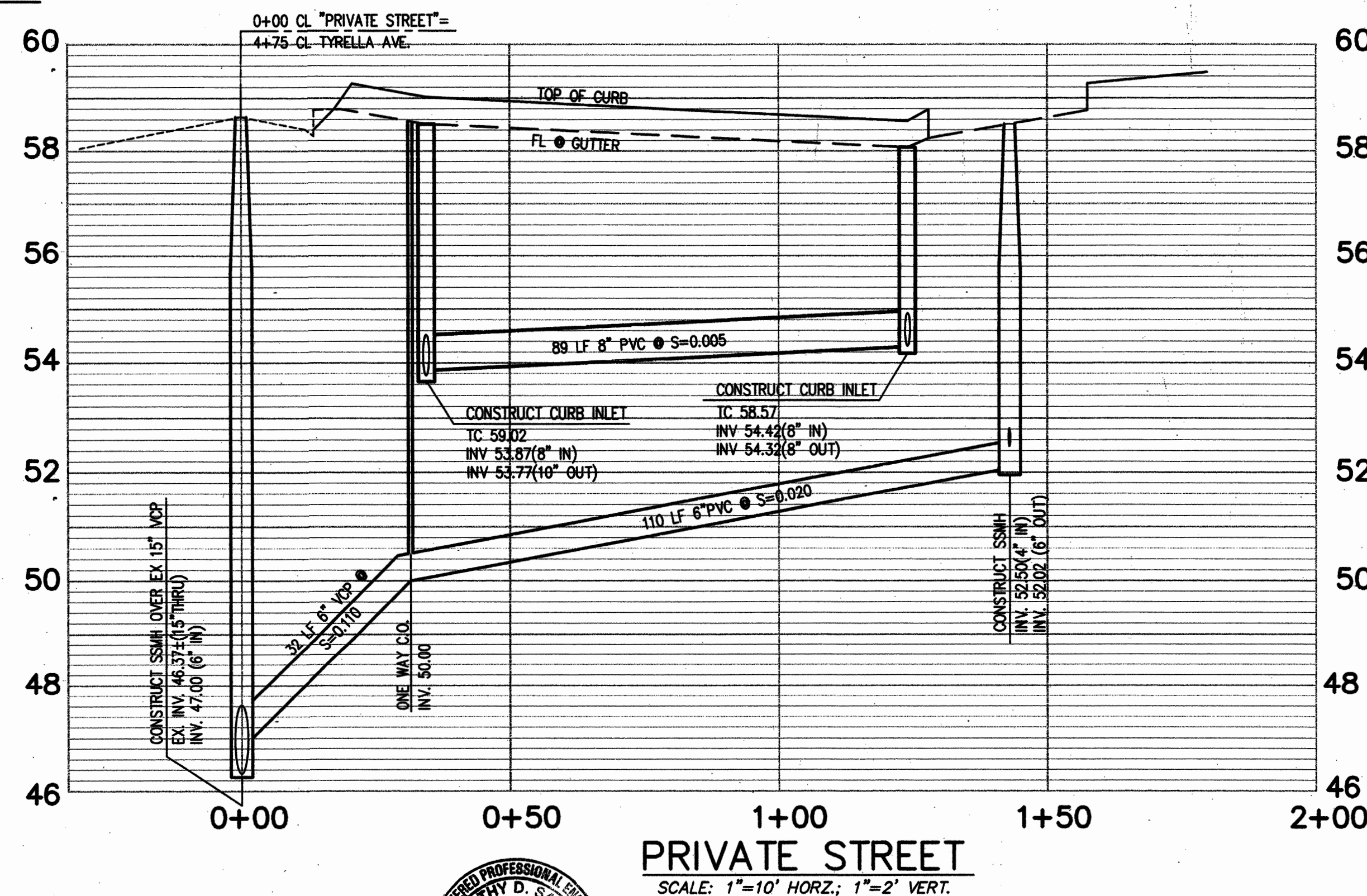
"ON-SITE" CURB INLET DETAIL
N.T.S.



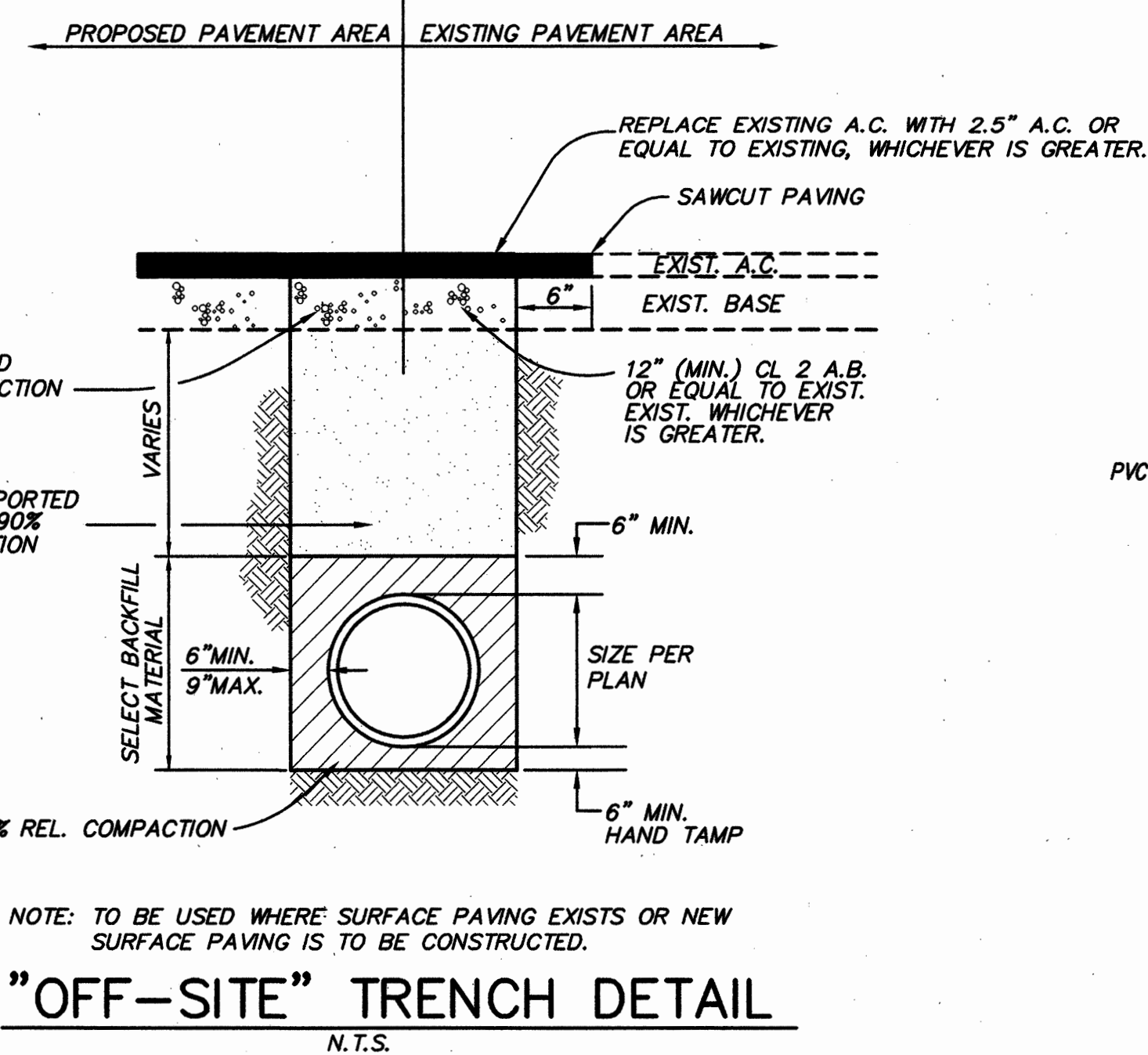
"ON-SITE" VERTICAL CURB
N.T.S.



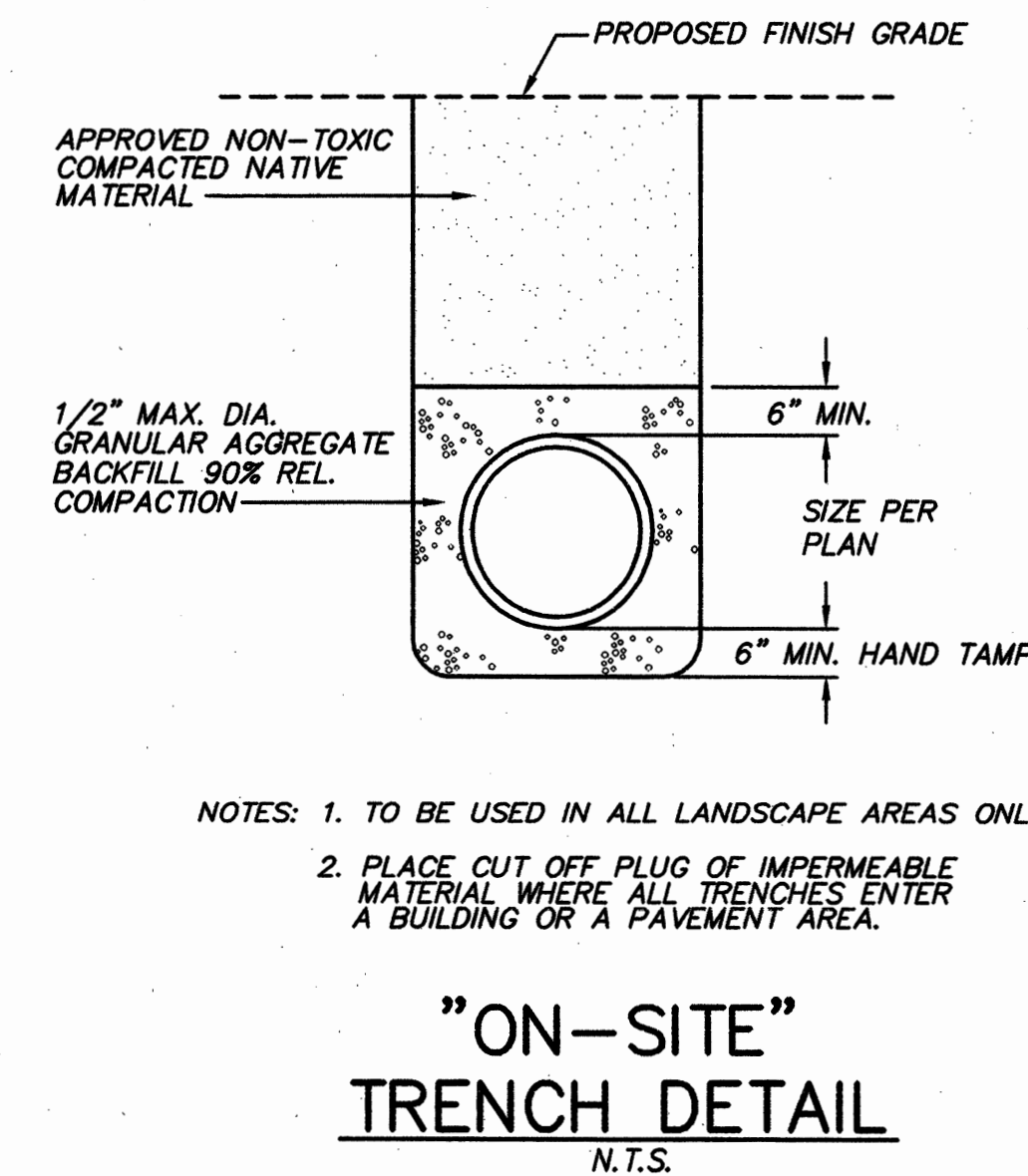
"ON-SITE" CURB AND GUTTER
N.T.S.



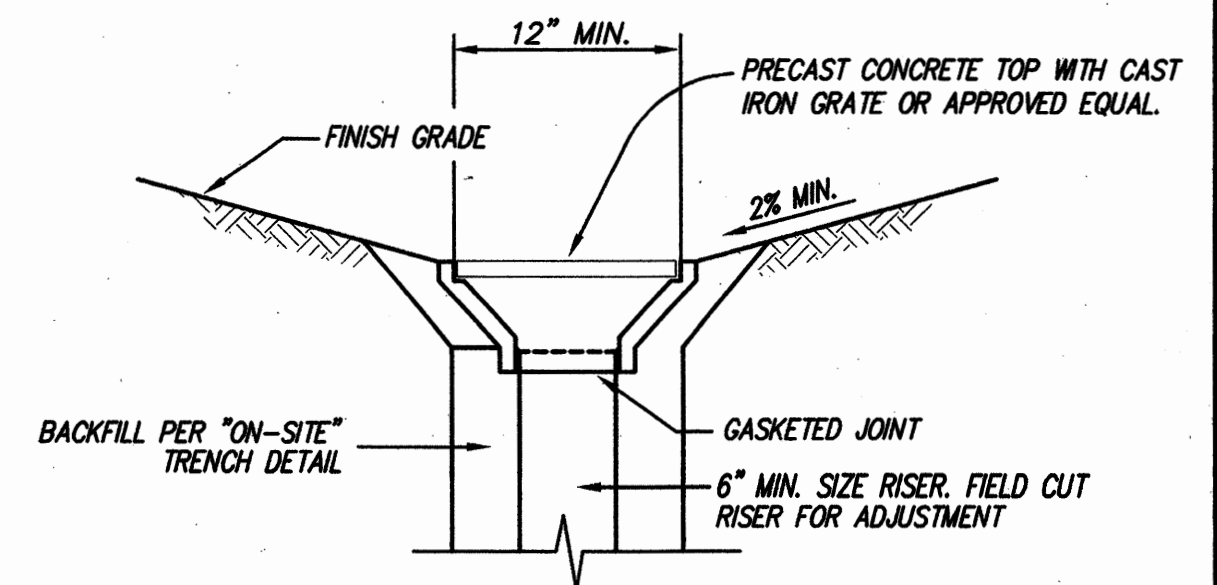
PRIVATE STREET
SCALE: 1"=10' HORIZ.; 1"=2' VERT.



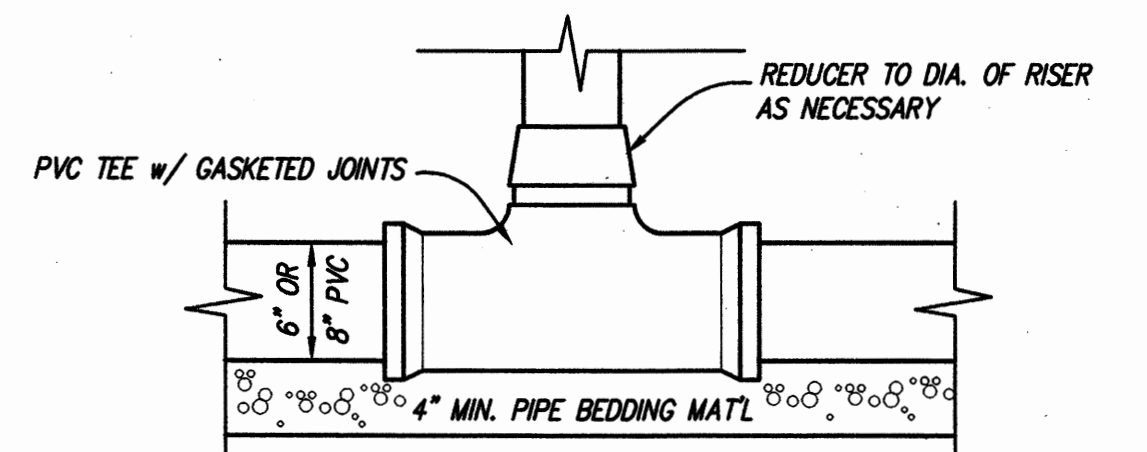
"OFF-SITE" TRENCH DETAIL
N.T.S.



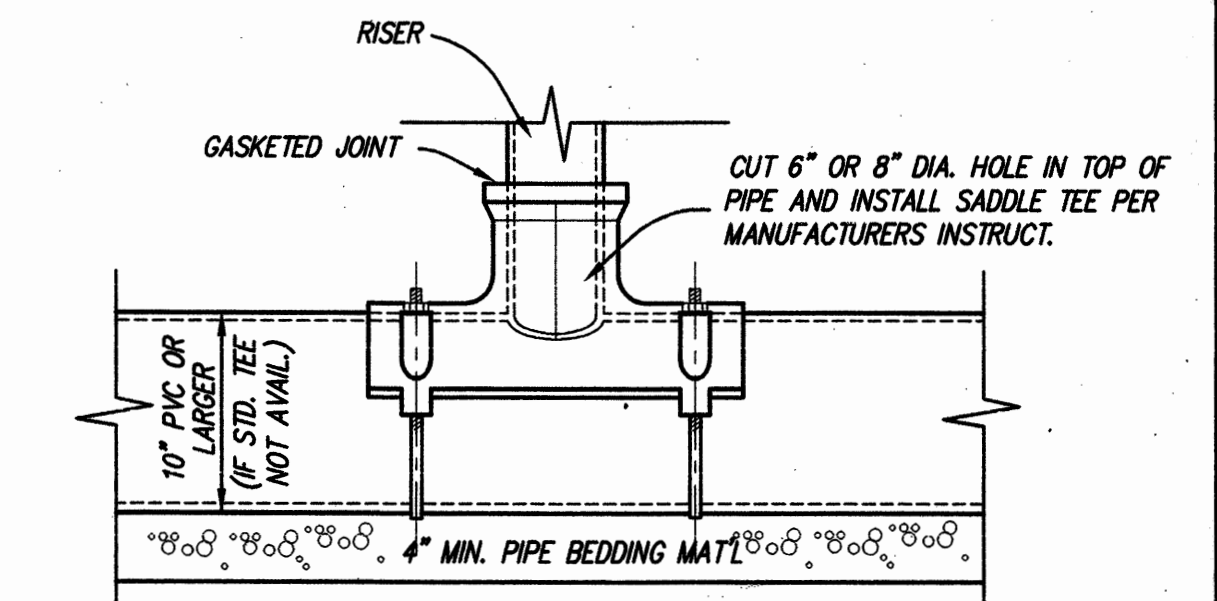
"ON-SITE" TRENCH DETAIL
N.T.S.



GRATE & RISER DETAIL

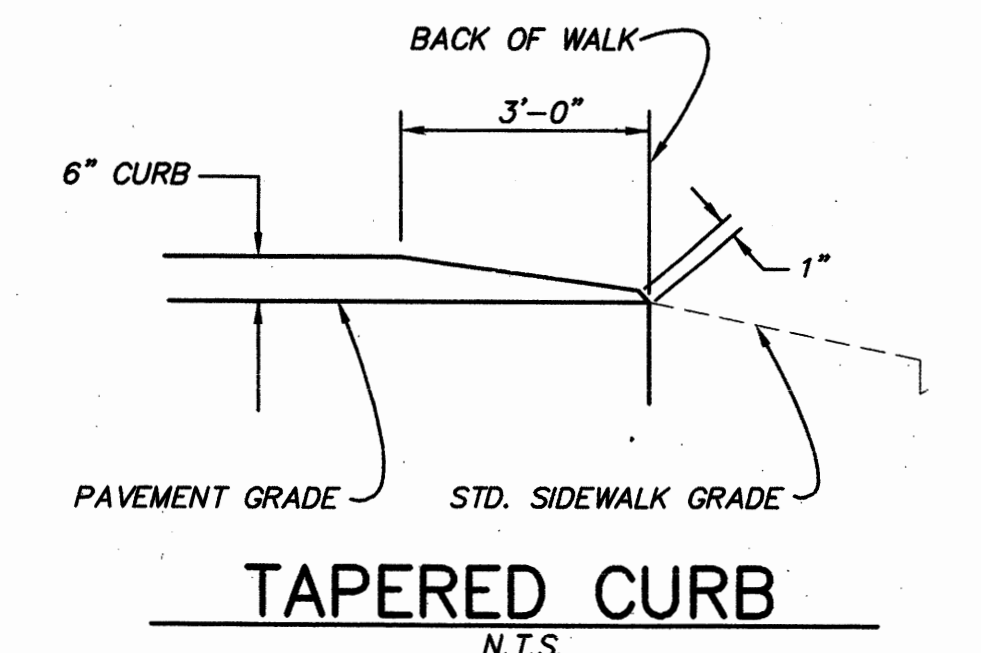


TEE & RISER DETAIL



SADDLE & RISER DETAIL

"ON-SITE" AREA DRAIN
N.T.S.



TAPERED CURB
N.T.S.

605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel. (415) 969-6900
Fax (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8/12/97
SCALE: AS SHOWN
DRAWN BY: TMH
APPROVED BY: GBC
DRAWING NO: 297136

DATE: 9/26/99
No. 15290
Exp. 3/31/01
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01

No.	REVISION	DATE	BY

TRACT NO. 8987
310 TYRELLA AVENUE
DETAILS
MOUNTAIN VIEW

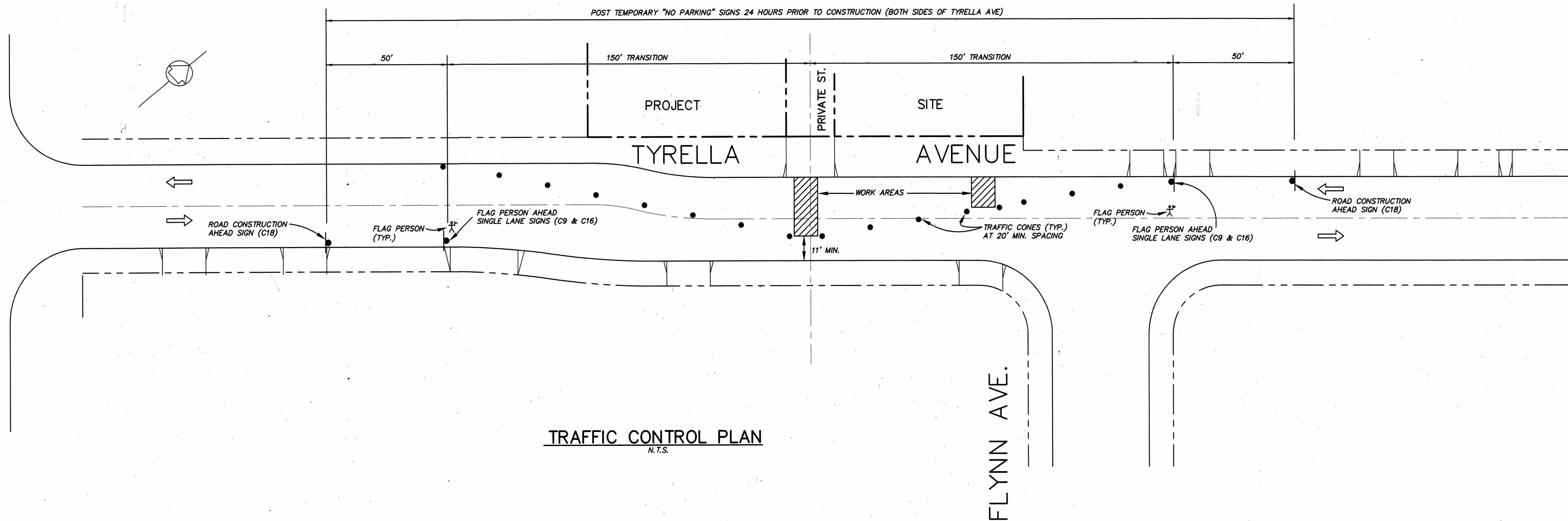
TRACT NO. 8987
310 TYRELLA AVENUE
DETAILS
7213-06 CALIFORNIA

SHEET
C-6
OF 7 SHEETS

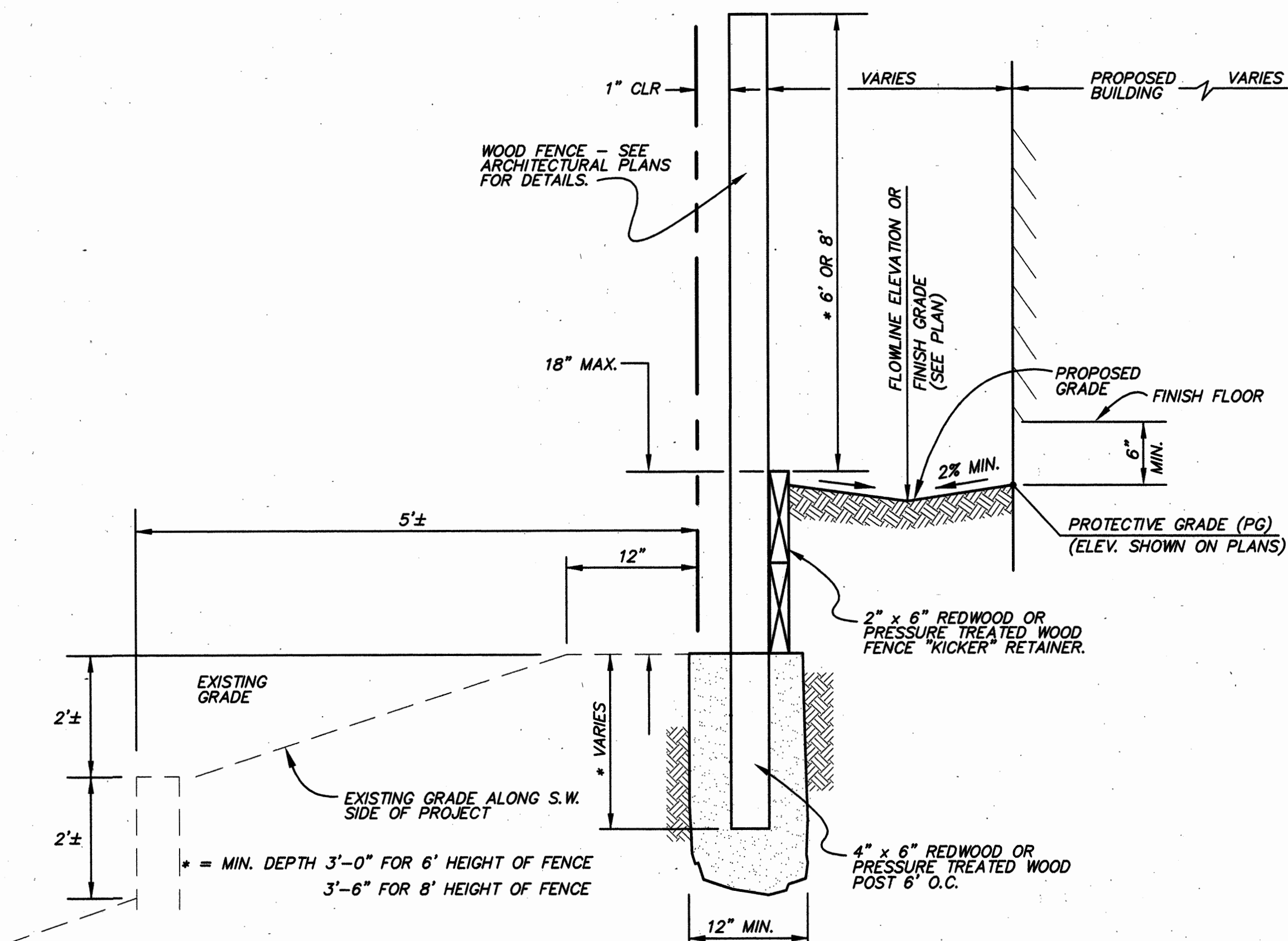
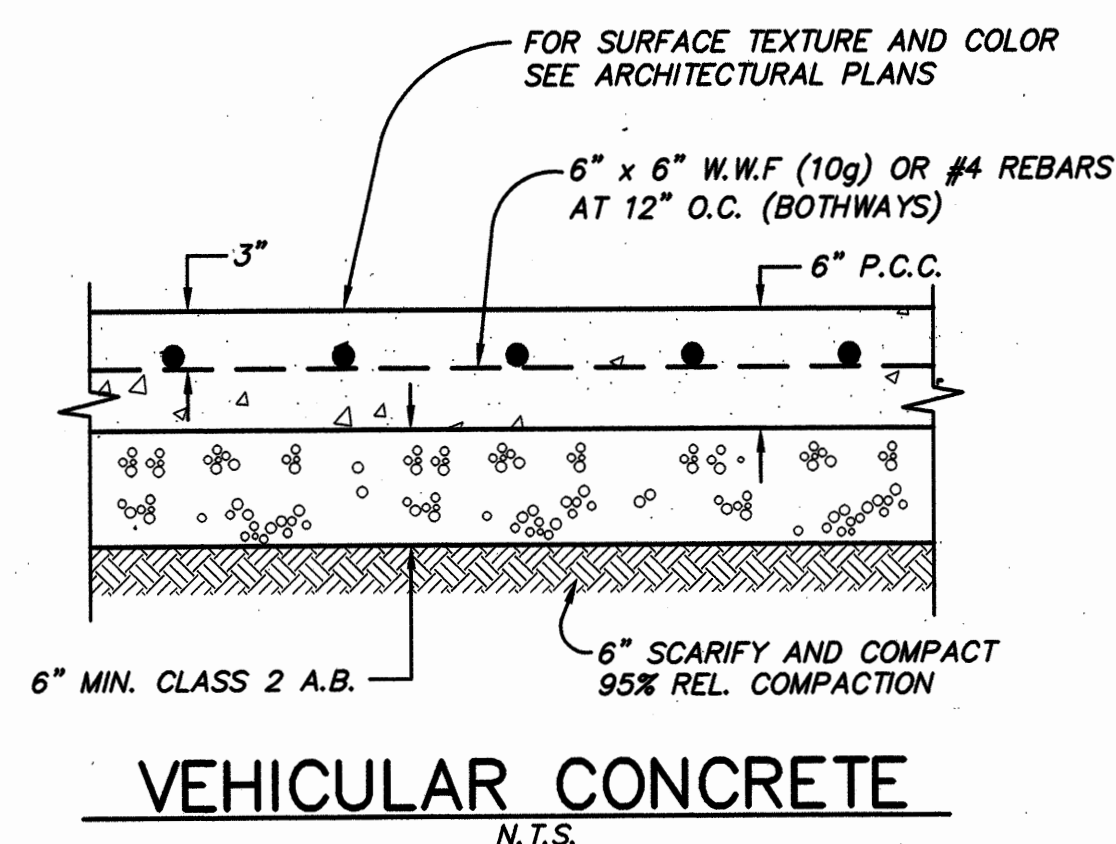
NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOCOPY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM WITHOUT PERMISSION IN WRITING FROM SANDIS HUMBER JONES

MIDDLEFIELD ROAD

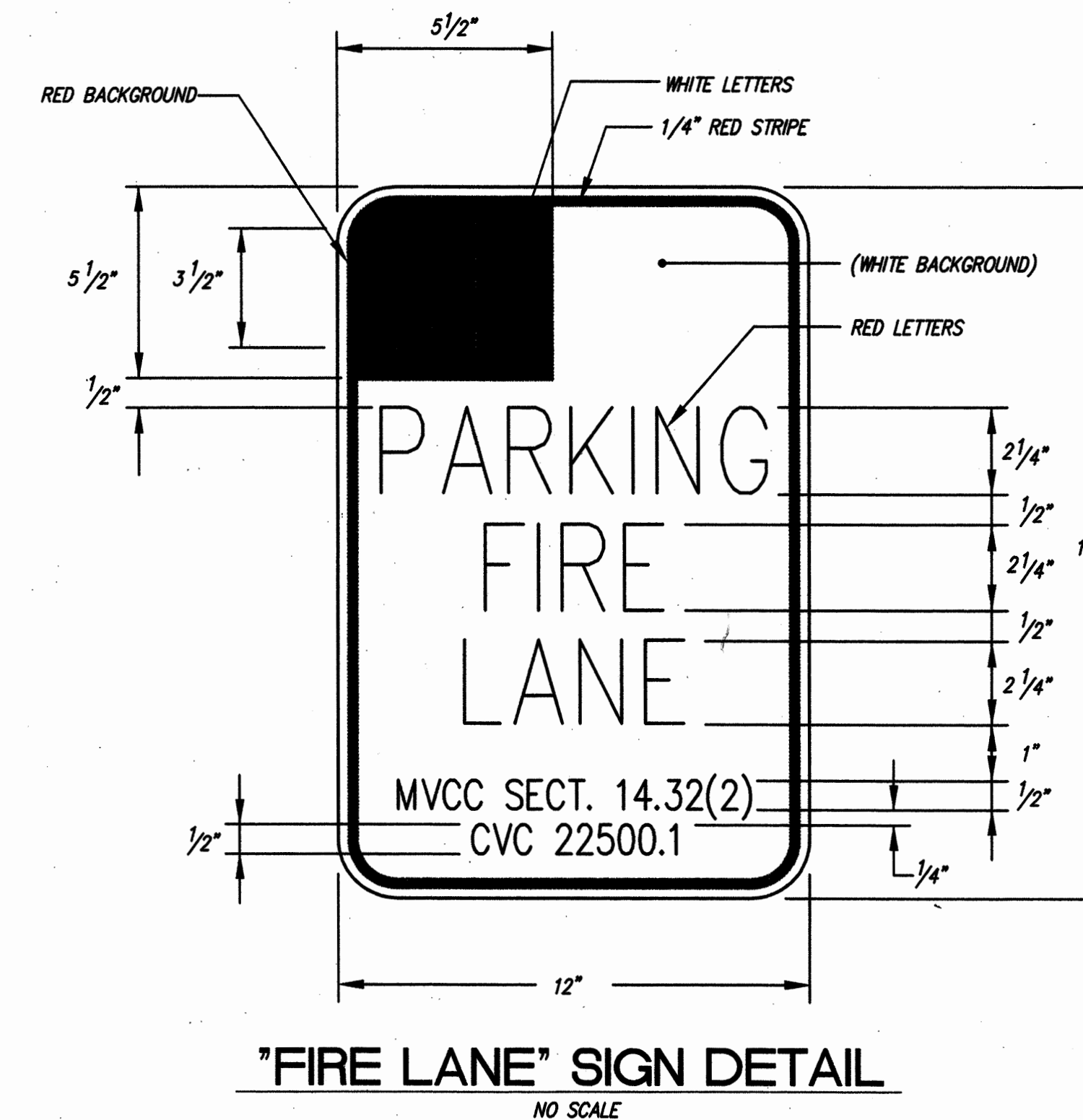
POST TEMPORARY "NO PARKING" SIGNS 24 HOURS PRIOR TO CONSTRUCTION (BOTH SIDES OF TYRELLA AVE)



TRAFFIC CONTROL PLAN
N.T.S.



TYPICAL SECTION AT FENCE AND REAR YARD
NO SCALE



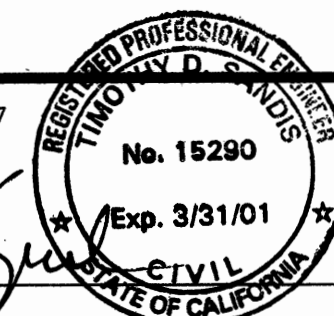
RECORD DRAWING, NOVEMBER 19, 1998

605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel. (415) 969-6900
Fax (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8/12/97
SCALE: NONE
DRAWN BY: TMH
APPROVED BY: GBC
DRAWING NO: 297136

DATE: 9/13/1997
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01



No.	REVISION	DATE	BY

TRACT NO. 8987
310 TYRELLA AVENUE
DETAILS

MOUNTAIN VIEW

CALIFORNIA

SHEET
C-7

OF 7 SHEETS

7213-07

Copyright © 1996 by Sandis Humber Jones 297136

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOCOPY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM WITHOUT PERMISSION IN WRITING FROM SANDIS HUMBER JONES.

MIDDLEFIELD ROAD

POST TEMPORARY "NO PARKING" SIGNS 24 HOURS PRIOR TO CONSTRUCTION (BOTH SIDES OF TYRELLA AVE)

50'

150' TRANSITION

150' TRANSITION

50'

PROJECT

SITE

TYRELLA

AVENUE

PRIVATE ST.

WORK AREAS

TRAFFIC CONES (TYP.)
AT 20' MIN. SPACING

FLAG PERSON
(TYP.)

FLAG PERSON AHEAD
SINGLE LANE SIGNS (C9 & C16)

ROAD CONSTRUCTION
AHEAD SIGN (C18)

ROAD CONSTRUCTION
AHEAD SIGN (C18)

FLAG PERSON
(TYP.)

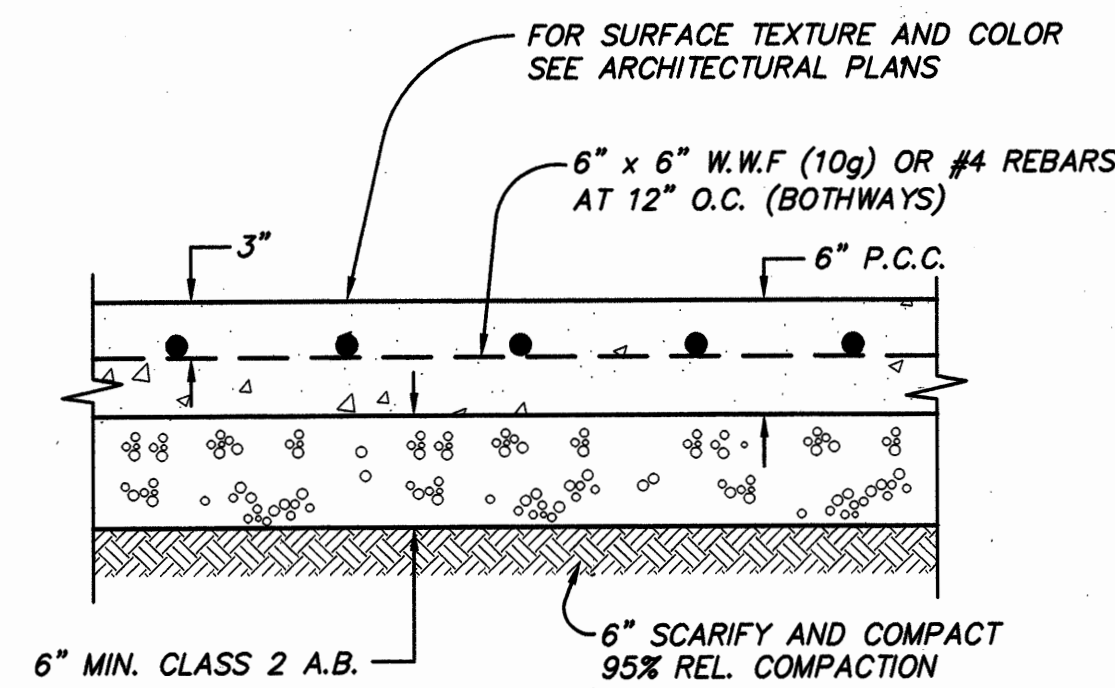
FLAG PERSON AHEAD
SINGLE LANE SIGNS (C9 & C16)

11' MIN.

TRAFFIC CONTROL PLAN

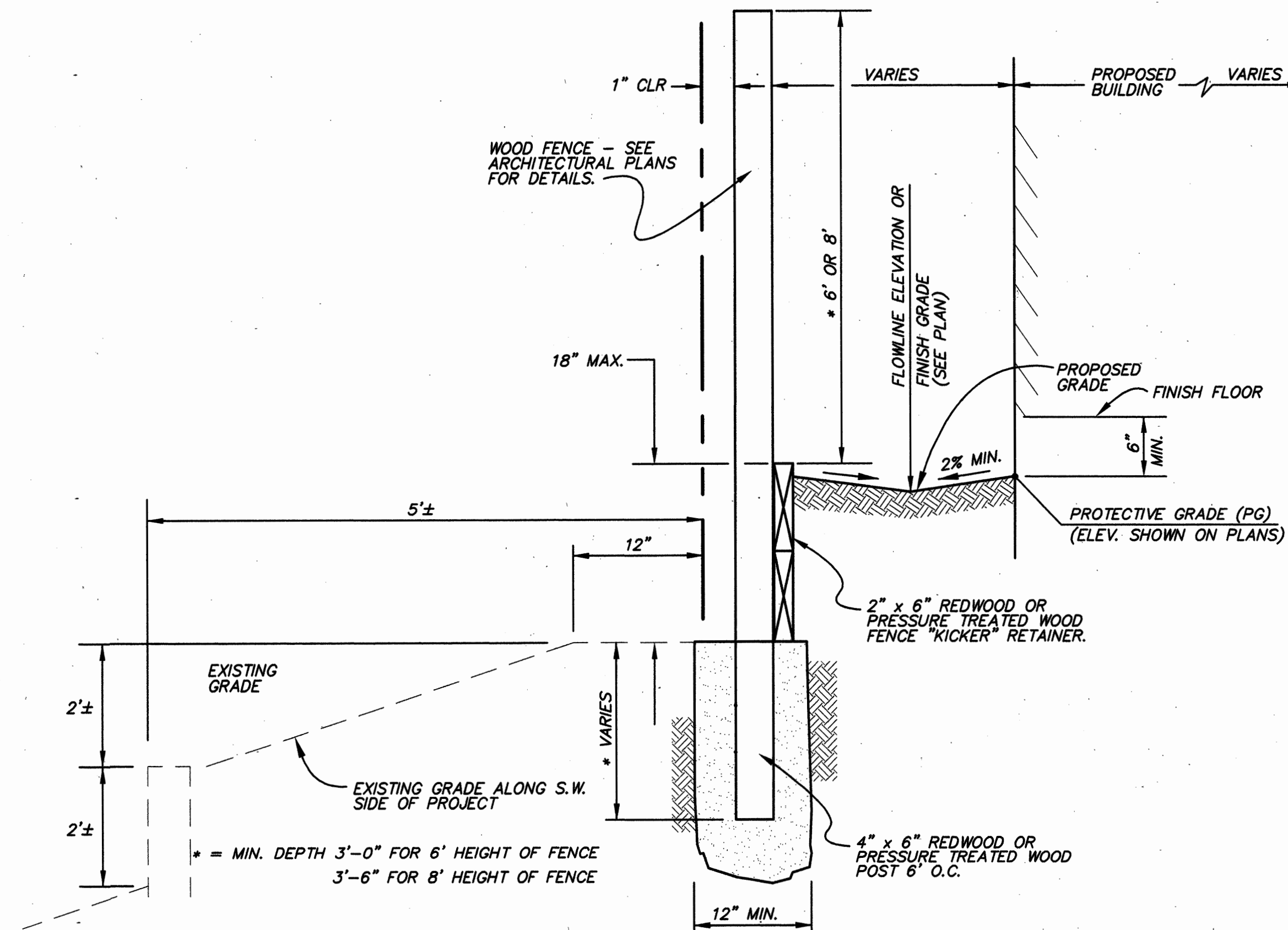
N.T.S.

FLYNN AVE.



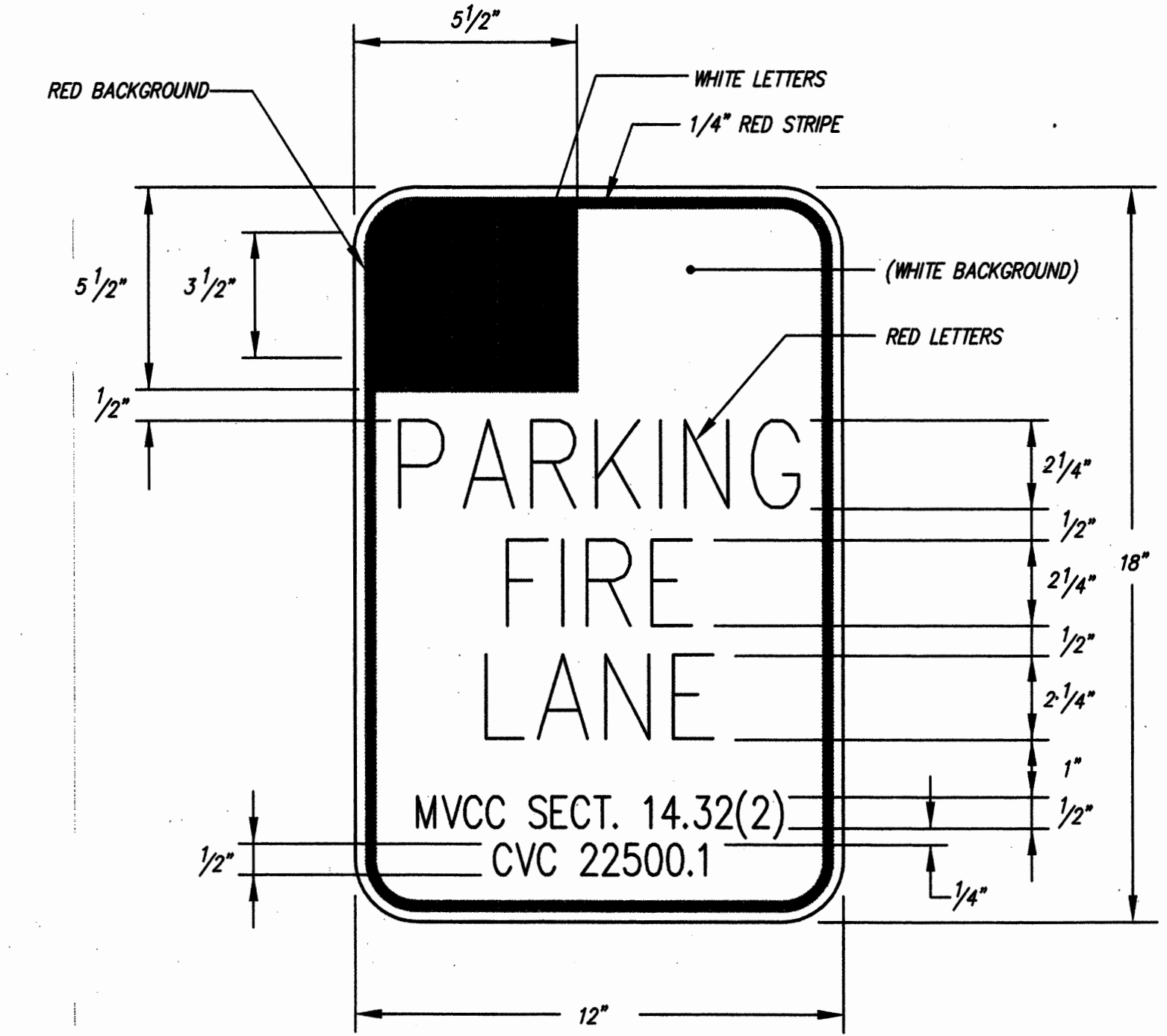
VEHICULAR CONCRETE

N.T.S.



TYPICAL SECTION AT FENCE AND REAR YARD

NO SCALE



"FIRE LANE" SIGN DETAIL

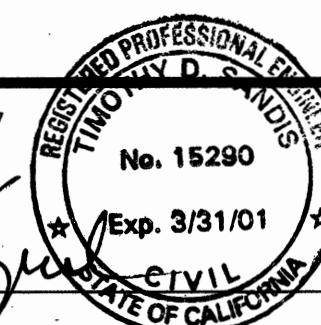
NO SCALE

605 Castro Street
P.O. Box 640
Mountain View CA
94042-0640
Tel. (415) 969-6900
Fax (415) 969-6472

SANDIS HUMBER JONES
CIVIL ENGINEERS SURVEYORS PLANNERS

DATE: 8/12/97
SCALE: NONE
DRAWN BY: TMH
APPROVED BY: GBC
DRAWING NO.: 297136

DATE: 9/13/1997
TIMOTHY D. SANDIS
R.C.E. NO. 15290, EXPIRES 3-31-01



No.	REVISION	DATE	BY

TRACT NO. 8987
310 TYRELLA AVENUE
DETAILS

MOUNTAIN VIEW

CALIFORNIA

SHEET

C-7

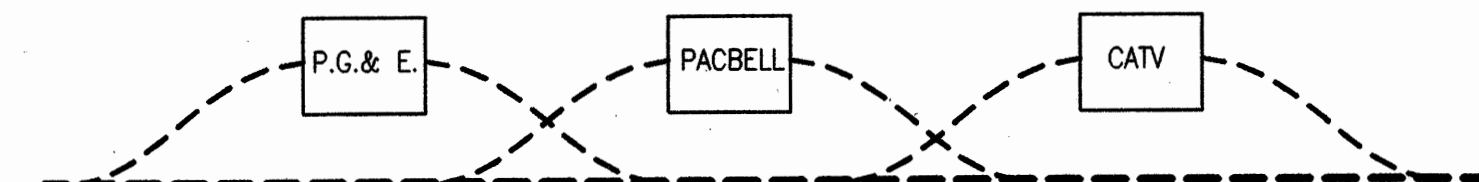
OF 7 SHEETS

7213-07

297136

CONSTRUCTION NOTES

- P.G. & E. STANDARD PRACTICE "SPECIFICATION FOR TRENCHING BY APPLICANT" GAS OPERATIONS (75-94), DATED 4/1/80 IS TO APPLY TO ALL TRENCHING, BACK FILLING AND INSTALLATION WORK.
- THE CONTRACTOR IS RESPONSIBLE TO HAVE ALL INSTALLATIONS INSPECTED AND APPROVED BY THE RESPECTIVE UTILITY COMPANY, MUNICIPALITY, OR SOILS ENGINEER PRIOR TO ANY BACK FILLING. (48 HOUR NOTICE)
- SHOULD A DISPUTE OR DISAGREEMENT OVER ANY INSTALLATION, DESIGN, PLAN, OR DRAWING OCCUR THE SPECIFICATIONS AND REQUIREMENTS OF THE INDIVIDUAL UTILITY COMPANY AND THEIR INSPECTOR SHALL TAKE PRECEDENCE.
- GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE QUALITY, QUANTITY OR TIMING OF WORK BY CONTRACTOR, UTILITY COMPANY CONSTRUCTION CREWS OR OTHER SUBCONTRACTORS TO THE DEVELOPER.
- THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE COMPLEMENTARY TO ONE ANOTHER. ANYTHING MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS SHALL BE CONSIDERED OF LIKE EFFECT AS IF APPEARING IN BOTH, CONTACT GIACALONE DESIGN SERVICES, INC. PRIOR TO START OF WORK IF A DISCREPANCY IS FOUND.
- CONSULT PARTICIPATING UTILITIES, SOILS ENGINEER, AND THE CITY FOR APPROVED BACK FILL MATERIAL. COMPACTION TO MEET LOCAL AGENCIES REQUIREMENTS.
- CONTRACTOR WILL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS. CONTRACTOR SHALL BE FAMILIAR WITH O.S.H.A. INDUSTRIAL ORDERS AND SHALL CONDUCT HIS WORK ACCORDINGLY. WHEN WORKING ENERGIZED EQUIPMENT, THE UTILITY OWNER SHALL BE NOTIFIED TO SUPPLY THE APPROPRIATE MAIN POWER AND SAFETY PRECAUTIONS AS NEEDED THE CONTRACTOR IS RESPONSIBLE FOR PUBLIC SAFETY AND TRAFFIC CONTROL MEASURES.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POINTS OF ACCESS THAT ARE AGREEABLE TO ADJACENT LAND USES AND TENANTS AT ALL TIMES.
- GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE PROJECT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE PROJECT AND SITE PRIOR TO SUBMITTING HIS BID.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS, BASED UPON RECORD DATA MADE AVAILABLE BY P.G. & E. TELEPHONE, CATV, IMPROVEMENT PLANS AND CITY RECORDS. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR THE INFORMATION SHOWN. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE PRECISE LOCATION OF ALL UNDERGROUND FACILITIES. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) (1-800-642-2444) AT LEAST 48 HOURS PRIOR TO START OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF CONSTRUCTION WITH THE RESPECTIVE UTILITY AGENCIES, ALLOWING 48 HOURS PRIOR TO THE NEED FOR INSTALLATIONS.
- THE CONTRACTOR SHALL NOTIFY DEVELOPER 48 HOURS PRIOR TO THE NEED FOR SURVEY STAKING. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL CONSTRUCTION STAKING SET BY THE DEVELOPERS SURVEYORS AND WILL BE BACK CHARGED FOR ANY RE-STAKING THAT IS REQUIRED.
- ALL LENGTHS SHOWN ON THESE PLANS ARE ESTIMATES. FINAL QUANTITIES SHALL BE BASED ON WHAT WILL BE NEEDED TO COMPLETE THIS PROJECT. DUE TO CHANGES, ADDITIONS, DELETIONS OR OMISSIONS FINAL QUANTITIES MAY VARY.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT IN PLACE ALL EXISTING FACILITIES. EXCAVATION MAY BE REQUIRED OVER, UNDER OR ADJACENT TO EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO LOCATE, EXPOSE AND PROTECT ALL EXISTING FACILITIES. THE CONTRACTOR IS RESPONSIBLE TO BID THE WORK BASED ON THE REVIEW OF THE IMPROVEMENT PLANS IN CONJUNCTION WITH THESE PLANS.
- SHOULD A CONFLICT ARISE BETWEEN FACILITIES SHOWN ON THESE PLANS AND IMPROVEMENT PLANS FOR THIS PROJECT, THE IMPROVEMENT PLANS SHALL TAKE PRECEDENCE. CONTACT GIACALONE DESIGN SERVICES, INC. (510 516-8990) IF A PROBLEM SHOULD OCCUR.
- ALL TRENCHES, CONDUITS, AND BOXES ARE SHOWN SCHEMATICALLY.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AS-BUILT DRAWINGS AFTER INSTALLATION OF P.G. & E. GAS AND ELECTRIC SYSTEMS PRIOR TO HOT TIE-INS.
- ALL TRANSFORMERS AND TRANSFORMER PADS ARE TO BE INSTALLED PER P.G. & E. SPECIFICATIONS. PROTECTIVE BOLLARDS ARE TO BE PLACED WHERE NEEDED.



- CONTRACTOR TO EXCAVATE TRANSITIONS FROM MAIN-LINE TRENCH TO VAULTS AS REQUIRED BY EACH UTILITY.
- TRANSITIONS NOT SHOWN ON COMPOSITE DRAWING FOR CLARITY.
- CONTRACTOR TO INCLUDE COST OF TRANSITIONS IN VAULT EXCAVATION COSTS.

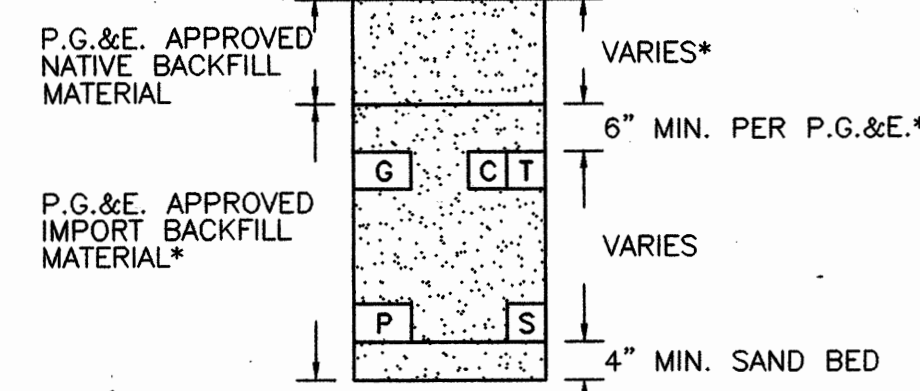
TRANSITION DETAIL
(TYPICAL)

SECTION	G	T	C	S	P	OTHER
A*	X	X	X	X	X	
B*	X	X	X	X	X	
C*	X	X	X	X	X	
D*	X	X	X	X	X	
E*	X					
F*	X					
G*	X					
H*	X					
I	X	X	X			
J	X	X	X			
K	X	X	X			
L	X	X	X			
M	X	X	X	X		
N	X	X	X	X		
O	X	X	X	X		
P	X	X	X	X		
Q	X					
R	X					
S		X	X			
T	X					
U		X				
V			X			
W				X		

* THESE SECTIONS MAY OR MAY NOT CONTAIN SECONDARY

MINIMUM COVER AND CLEARANCES

	Minimum space from						Minimum Cover
	G	T	C	S	P		
G (Gas)	6"	6"	6"	12"	12"	24"	30" in street
T (Telephone)	6"	0"	0"	12"	12"	24"	30" in street
C (C.A.T.V.)	6"	0"	0"	0"	12"	18"	
S (Elect. Secondary)	12"	0"	0"	6"	6"	24"	30" in street
P (Elect. Primary)	12"	12"	12"	6"	6"	30"	36" in street



MINIMUM BACKFILL REQUIREMENTS

*JOINT TRENCH CONTRACTOR SHALL COMPLY WITH LOCAL GOVERNING AGENCIES' STANDARDS AND SPECIFICATIONS

LABOR & CONSTRUCTION RESPONSIBILITIES

JOINT TRENCH

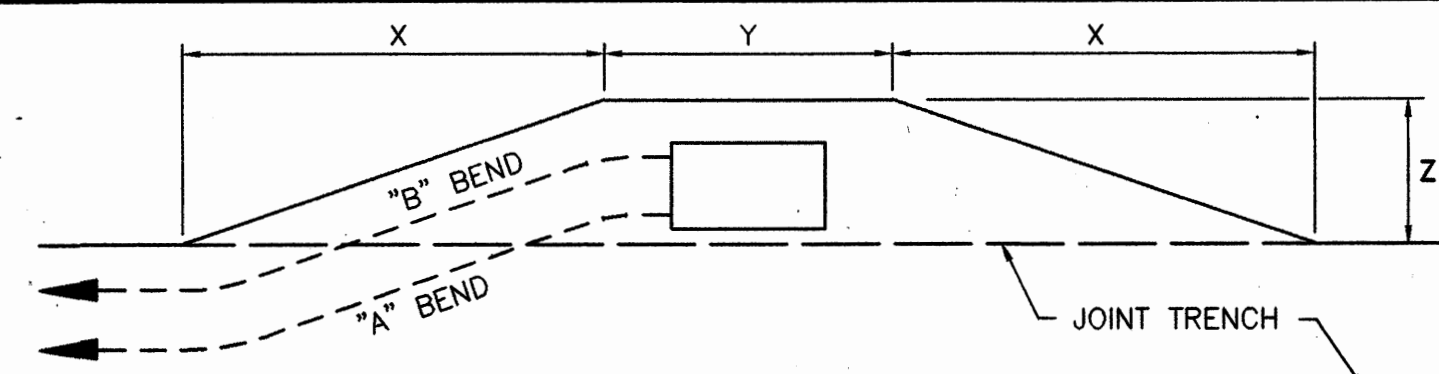
	P.G. & E.-ELECTRIC	P.G. & E.-GAS	TELEPHONE	CATV	CONTRACTOR
TRENCHING:					
EXCAVATE, BACKFILL AND COMPACT	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
GAS MATERIAL:					
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
ELECTRIC CABLE:					
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
ELECTRIC CONDUIT:					
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
ELECTRIC SPLICE BOXES:					
EXCAVATE	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
ELECTRIC TMR. ENCLS:					
EXCAVATE	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
ELECTRIC EQUIP. ENCLS:					
EXCAVATE	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
ELECTRIC TRANS. PADS:					
GRADE	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
ELECTRIC SWITCH PADS:					
GRADE	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
TELEPHONE CONDUIT:					
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
TELEPHONE CABLE:					
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
TELEPHONE SPLICE BOXES:					
EXCAVATE	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
TELEPHONE INTER PADS:					
GRADE	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
CATV CONDUITS:					
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
CATV SPLICE BOXES:					
EXCAVATE	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○	○ ○ ○ ○ ○

STREET LIGHTING SYSTEM

	P.G. & E.	CONTRACTOR
WIRE:		
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○
CONDUIT:		
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○
BASES:		
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○
LUMINAIRES:		
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○
SPLICE BOX:		
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○
POLES:		
SUPPLY	○ ○ ○ ○ ○	○ ○ ○ ○ ○
INSTALL	○ ○ ○ ○ ○	○ ○ ○ ○ ○

P.G. & E. RATE SCHEDULE:
INSTALL IN JOINT TRENCH:
INSTALL IN SEPARATE TRENCH:

ADDITIONAL NOTES:



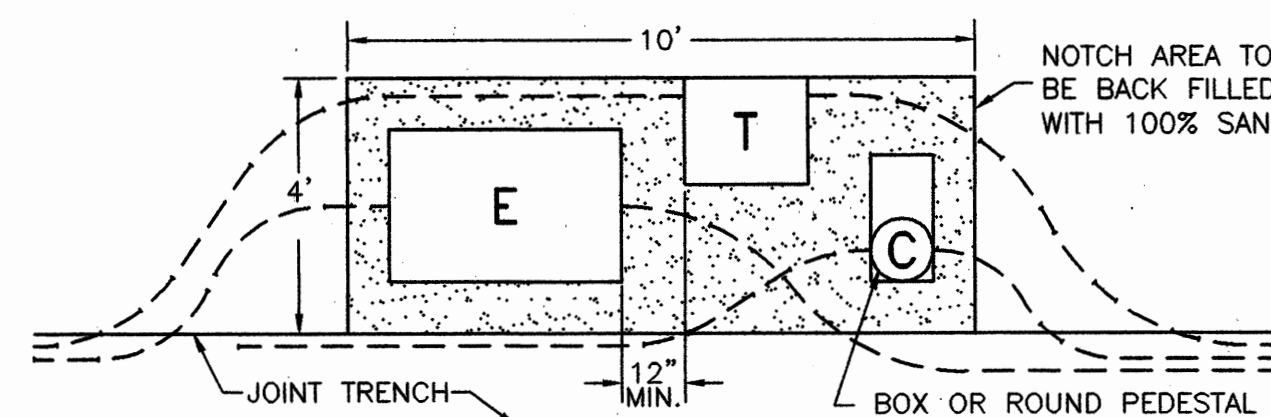
"A" BEND	PRIMARY BOX SIZE	DISTANCE (when conduit enters "A")
		"X" "Y" "Z"
	3' x 5'	24' 7' 5'
	4'-6" x 8'-6"	24' 11' 7'

BEND IS 60° RADIUS WITH AN ANGLE OF 10°. USE 2-5 COUPLINGS WITH 1-5' CONDUIT SECTION FOR EACH BEND SHOWN.

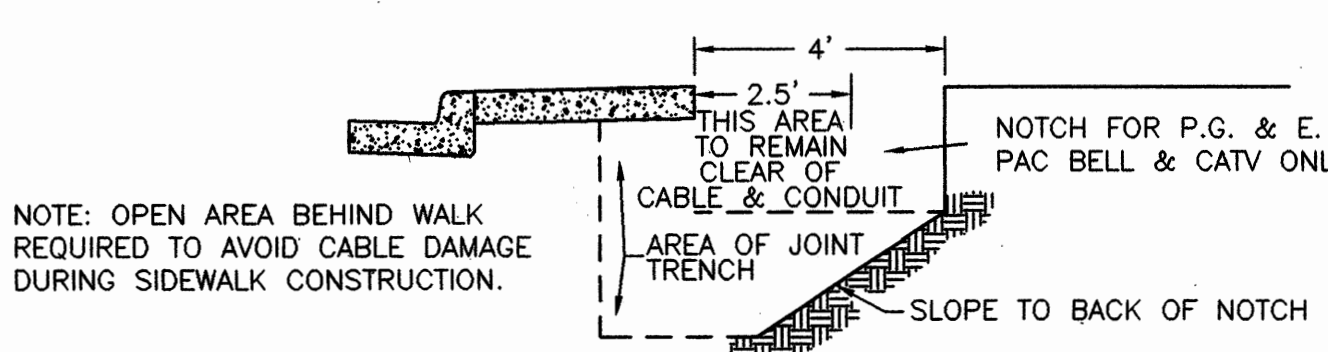
"B" BEND	PRIMARY BOX SIZE	DISTANCE (when conduit enters "B")
		"X" "Y" "Z"
	3' x 5'	32' 7' 5'
	4'-6" x 8'-6"	32' 11' 7'

BEND IS 30° RADIUS WITH AN ANGLE OF 15°. USE 3-5 COUPLINGS WITH 2-2 1/2' CONDUIT SECTIONS FOR EACH BEND SHOWN.

TYPICAL P.G. & E. PRIMARY BOX EXCAVATION USING CONDUIT



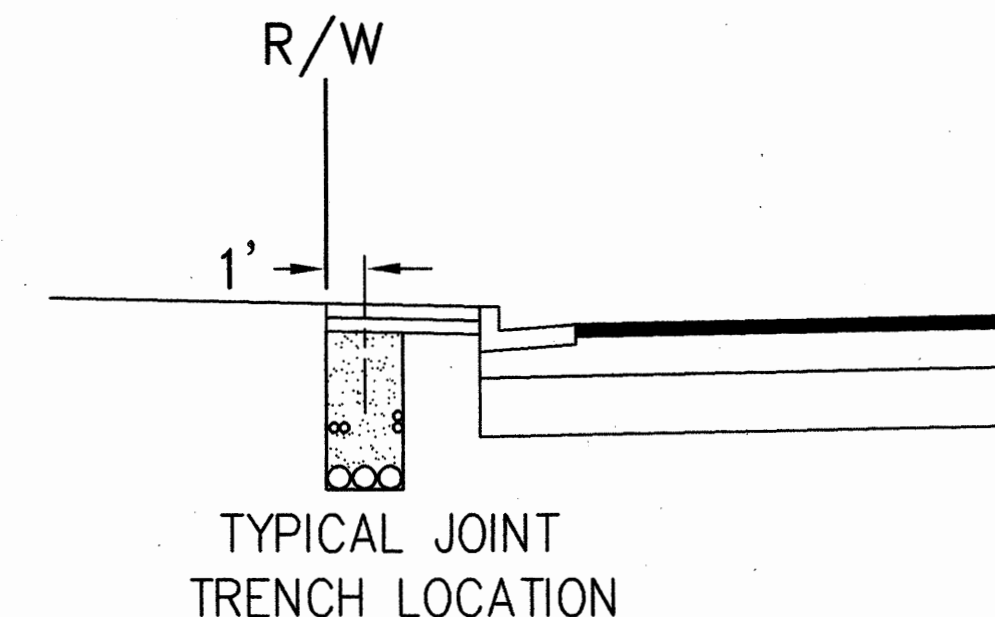
TYPICAL SECONDARY BOX NOTCH (3 OCCUPANTS)
NOTE: NOTCH TO BE 1" LARGER (ALL AROUND) THAN BOXES. NOTCH TO BE REDUCED OR ENLARGED ACCORDING TO THE NUMBER OF BOXES INSTALLED.



TYPICAL SECONDARY BOX NOTCH - SIDE VIEW

LEGEND

— EX JT —	EXISTING TRENCH AND UTILITIES	■	EXISTING PRIMARY SPLICE BOX
— — —	PROPOSED DISTRIBUTION TRENCH	■	EXISTING SECONDARY SPLICE BOX
— — —	PROPOSED SERVICE TRENCH	○	JOINT POLE
①	13" x 24" P.G. & E. SPLICE BOX	□	TELEPHONE SPLICE BOX (size as shown)
②	17" x 30" P.G. & E. SPLICE BOX	◎	C.A.T.V. SPLICE BOX (size as shown)
③	24" x 36" P.G. & E. SPLICE BOX	⊙	METER PEDESTAL
④	3'0" x 5'0" P.G. & E. SPLICE BOX (depth as shown)	✱	PROPOSED ELECTROLIER
⑤	4'6" x 8'6" P.G. & E. SPLICE BOX (depth as shown)	✱	EXISTING ELECTROLIER
⑥	3'0" x 5'0" x 4'6" SUBSURFACE TRANSFORMER ENCLOSURE	Ⓢ	IRRIGATION CONTROLLER
⑦	PADMOUNTED TRANSFORMER	●	FIRE HYDRANT
⑧	PADMOUNTED FUSED SWITCH	U.O.N.	UNLESS OTHERWISE NOTED
⑨	GAS TIE-IN HOLE (size as shown)		



TYPICAL STREET SECTION
NOT TO SCALE

Date JUN 1997

Scale NONE

Drawn B. BENNETT

Checked by

P.M. A. GIUSTI

Job 97-62

Giocalone
DESIGN SERVICES, INC.
P.O. BOX 1417 BRENTWOOD, CA 94513
(510) 516-8990

JOINT TRENCH COMPOSITE
310 TYRELLA AVENUE
GUY DENUES ARCHITECT

MOUNTAIN VIEW

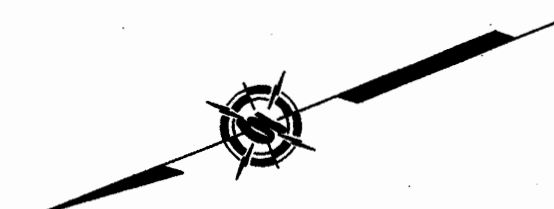
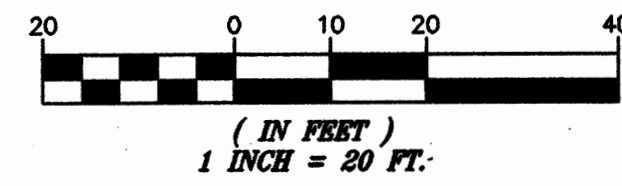
REVISIONS BY:

Sheet

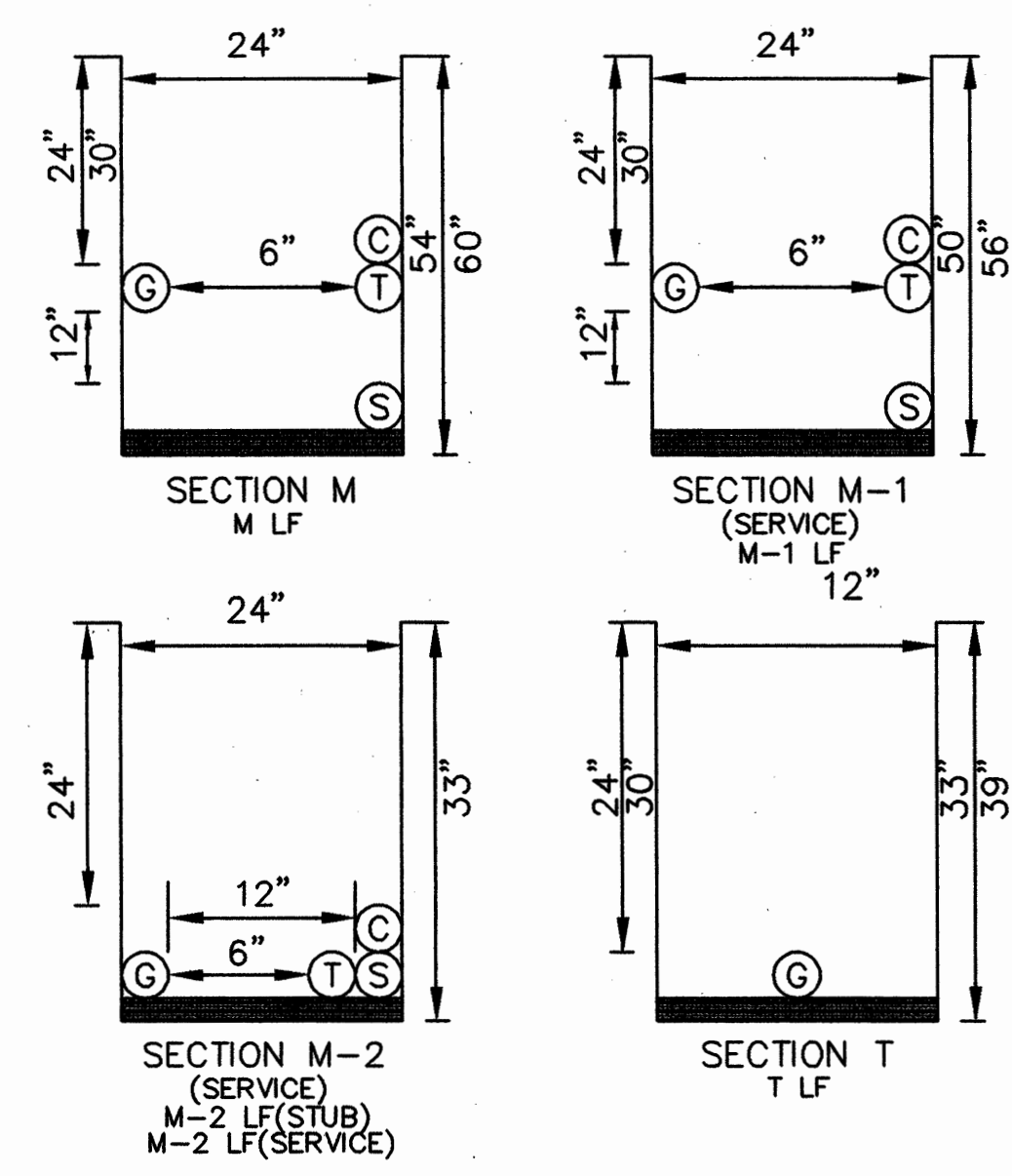
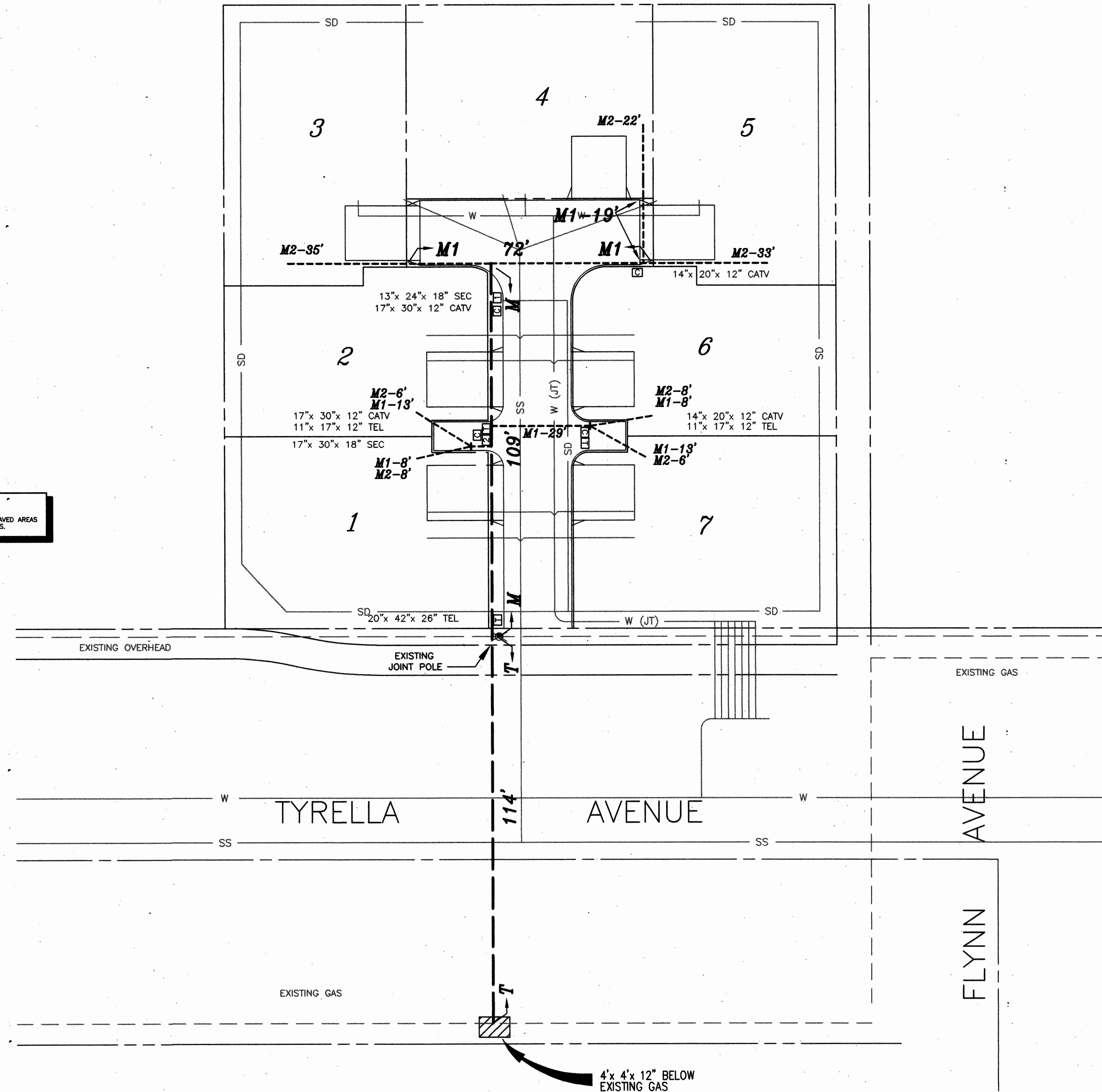
C8

Of 9 Sheets

- NOTES:**
- 1) FIELD ADJUST SERVICE CROSSINGS TO MINIMIZE INTERFERENCE WITH EXISTING FACILITIES (TYP).
 - 2) FIELD ADJUST SPLICE BOXES TO KEEP CLEAR OF SIDEWALK AND EXISTING FACILITIES (TYP).
 - 3) TRANSITION TO VAULTS FROM TRENCH NOT SHOWN, SEE TRANSITION DETAIL ON SHEET 1.
 - 4) INCIDENTAL TRENCHING TO SPLICE BOXES NOT SHOWN (TYP). CONTRACTOR TO PROVIDE ADDITIONAL TRENCHING AS REQUIRED FOR CONDUIT ROUTING TO SPLICE BOXES AND CABINETS (TYP).
 - 5) CONTRACTOR TO INSTALL CONDUIT PER RESPECTIVE UTILITY DRAWINGS.



NOTE
ALL BOXES LOCATED IN THE PAVED AREAS SHALL HAVE TRAFFIC RATED LIDS.



Date JUN 1997
Scale 1" = 20'
Drawn B. BENNETT
Ck'ed by
P.M. A. GIUSTI
Job 97-62

Geacalone
DESIGN SERVICES, INC.
P.O. BOX 1417 BRENTWOOD, CA 94513
(510) 516-8890 FAX (510) 516-8892

JOINT TRENCH COMPOSITE
310 TYRELLA AVENUE
GUY DENUES ARCHITECT
MOUNTAIN VIEW
CALIFORNIA

REVISIONS	BY

Sheet
C9
Of 9 Sheets